

CENTURY PANEL METERS

Attractive, easy-to-read meters in black plastic case with glass window. All models shown have black knife-edge pointer and ±2% accuracy. UL recognized. Many other ranges available; go online or call. Order external shunts separately on page 1897.



ROUND AND RECTANGULAR PANEL METERS



Popular replacement meters feature black plastic case, glass window, and black spade pointer. Accuracy for all models shown: ±2% I.s. UL recognized (except wattmeters). Other ranges available; go online or call. Order external shunts separately on page 1897 and current transformers separately on page 1596.

DC VOLTMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Ohms	Model 2121 1.5"		Model 2122 2.5"		Model 2123 3.5"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-5	1KΩ Per V	...	...	55F5357	79.25	...	...
0-10		...	...	55F5358	79.25	98F6026	80.17
0-15		55F5412	79.25	55F5359	79.25	55F5368	80.17
0-25		...	...	55F5360	79.25	...	...
0-30		55F5413	79.25	...	...	55F5370	80.17
0-50		...	...	55F5362	79.25	55F5371	80.17
0-100		...	...	55F5363	79.25	...	...
0-150	...	...	55F5364	79.25	55F5373	80.17	

DC AMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Ohms	Model 2122 2.5"		Model 2123 3.5"		Model 2124 4.5"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-3	00.0166	55F5252	75.12	55F5259	79.25	...	...
0-5	00.0100	55F5253	75.12	55F5260	79.25	...	...
0-10	00.0050	55F5254	75.12	...	...	...	...
0-15	00.0033	55F5255	75.12	...	...	...	...
0-25	00.0020	55F5256	75.12	55F5263	79.25	...	...
0-50	00.0010	55F5257	75.12	...	...	55F5272	85.53
0-100†	10.0	...	...	55F5265	79.25	...	...

† Requires external shunt, order separately on page 1897.

DC MICROAMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Resist. (Ω)	Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-50	1800	55F5300	94.86	...	...	55F5322	104.19
0-100	1800	55F5301	85.99	55F5311	88.59	55F5324	98.38
0-200	1100	...	...	55F5313	81.55	...	...
25-0-25	1800	...	...	55F5315	97.77	...	...

DC MILLIAMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Ohms	Model 2122 2.5"		Model 2123 3.5"	
		Stock No.	Price Each	Stock No.	Price Each
0-5	2.00	...	...	55F5342	75.74
0-25	4.00	...	...	55F5344	79.25
0-100	1.00	55F5337	75.12	...	...
0-500	0.20	...	...	55F5349	79.25

AC VOLTMETERS WITH IRON-VANE METER MOVEMENT

Range	Ohms	Model 2153 3.5"		Model 2154 4.5"	
		Stock No.	Price Each	Stock No.	Price Each
0-150	25000	55F5387	80.48	55F5392	85.53
0-250	41166	55F5388	80.48	...	...
0-300	50000	55F5389	80.48	...	...

AC AMMETERS WITH IRON-VANE METER MOVEMENT

Range	Ohms	Model 2152 2.5"		Model 2153 3.5"		Model 2154 4.5"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-5	0.0080	55F5275	69.31	55F5284	73.44	55F5291	77.42
0-10	0.0040	55F5276	69.31	55F5285	73.44	55F5292	77.42
0-15	0.0025	55F5277	69.31	55F5286	73.44	...	...
0-25	0.0020	55F5278	71.60	55F5287	75.74	...	...
0-50	0.0010	55F5280	71.60	55F5288	75.74	55F5295	79.71

(2405)

DC VOLTMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Resist. (Ω)	Model 25 3.5"	Model 27 3.5"	Price Each	Model 29 4.5"	Price Each
		Stock No.	Stock No.		Stock No.	
0-5	1000 Ohms Per Volt	...	55F039	80.17	...	...
0-15		...	...	...	55F251	86.60
0-25		...	55F038	80.17	...	...
0-30		55F1112	...	80.17	55F145	86.60
0-50		55F1015	55F043	80.17	55F183	86.60
0-100		62F3253	...	80.17	55F252	86.60
0-150		...	55F045	80.17	55F170	86.60
0-250	55F1018	...	80.17	...	...
0-300	...	...	...	55F184	86.60	
0-3000+	2000	...	...	...	55F255	116.28

+External multiplier furnished with meter

DC AMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Resist. (Ω)	Model 25 3.5"	Model 27 3.5"	Price Each	Model 29 3.5"	Price Each
		Stock No.	Stock No.		Stock No.	
0-2	0.025	...	...	...	55F259	85.53
0-3	0.0166	55F1057	...	79.25	55F260	85.53
0-5	0.010	...	...	...	55F210	85.53
0-10	0.005	...	55F064	79.25	...	...
0-25	0.0020	55F1060	...	79.25	...	...
0-30	0.0017	...	55F4828	79.25	...	...
0-50	0.001	...	...	...	55F212	85.53
0-200*	10.0	62F3268	...	79.25	...	...
0-300*	10.0	...	...	...	62F3279	85.53
0-500*	10.0	...	...	...	62F3280	85.53
30-0-30	0.0017	55F1062	...	82.77	...	...

*Require external shunt; order separately on page 1897.

DC MICROAMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Resist. (Ω)	Stock No.	Price Each	Stock No.	Price Each
0-50	1800	55F1031	96.54	55F176	104.19
0-100	1800	...	88.59	...	...

AC VOLTMETERS WITH IRON-VANE TYPE METER MOVEMENT

Range	Resist. (Ω)	Type 55 3.5"	Type 57 3.5"	Price Each	Type 59 4.5"	Price Each
		Stock No.	Stock No.		Stock No.	
0-10	133	55F1067	...	77.72	...	...
0-50	3,333	55F1069	...	77.72	...	...
0-150	25,000	55F1071	55F115	80.48	55F181	85.53
0-250	41,166	...	55F273	80.48	62F3296	85.53
0-300	50,000	55F1072	62F3291	80.48	55F191	85.53
0-500+	83,333	...	...	...	55F192	108.78
0-1000+	166,666	...	55F275	117.50	...	...

+External multiplier furnished with meter

AC AMMETERS WITH IRON-VANE TYPE METER MOVEMENT

Range	Resist. (Ω)	Stock No.	Price Each	Stock No.	Price Each
0-3	0.028	...	...	55F194	77.42
0-5	0.008	55F1088	73.44	55F195	77.42
0-10	0.004	55F1089	73.44	55F196	77.42
0-15	0.0025	55F1119	73.44	55F282	77.42
0-25	0.002	55F1090	75.74	55F197	79.71
0-50	0.001	55F1091	75.74	55F219	79.71
0-100**	0.008	55F1121	73.44	55F284	77.42

**Requires external transformer; order separately on page 1897.

WATTMETERS WITH DYNAMOMETER MOVEMENT

Range	Volts	Amps	Model 79 4.5"	Price Each
			Stock No.	
0-75	150	1.0	55F232	248.63
0-150	150	2.0	55F233	248.63
0-300	150	4.0	55F234	248.63
0-750	150	10.0	55F235	248.63
0-1500	300	10.0	55F236	248.63
0-3000	300	20.0	55F1140	248.63

(2393)



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(148829)

ANALOG (2%)

WIDE-VUE PANEL METERS



Black plastic case with clear acrylic window for wide-angle visibility. 1½" models have black knife-edge pointer; 2½", 3½", 4½" models have black spade pointer. Accuracy for all models show: ±2% f.s. Other ranges available; go online or call. For Wide-Vue bezel kits, external shunts and current transformers, go online or call.

DC VOLTMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Resist. (Ω)	Model 1212 1-1/2"		Model 1227 2-1/2"		Model 1327 3-1/2"		Model 1329 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-5	1000 Ohms Per Volt	55F436	79.25	...	...	55F1146	80.17	...	...
0-10		55F437	79.25	55F1500	79.25	55F1550	80.17	55F1600	86.60
0-15		55F438	79.25	55F1501	79.25	55F1551	80.17	55F1601	86.60
0-25		55F439	79.25	55F1502	79.25	...	...	55F1602	86.60
0-30		55F440	79.25	55F1503	79.25	55F1553	80.17	55F1603	86.60
0-50		55F441	79.25	55F1504	79.25	55F1554	80.17	55F1604	86.60
0-100		55F442	79.25	55F1505	79.25	55F1555	80.17	...	...
0-150		55F443	79.25	55F1506	79.25	55F1556	80.17	55F1606	86.60
0-200		...	...	...	...	55F1148	80.17	...	...
0-500		2000	...	...	...	55F1558	84.46	...	...

DC AMMETERS WITH SELF-SHIELDING METER MOVEMENT

0-1	0.050	55F447	76.35	55F1172	75.12	...	...	...	...
0-1.5	0.033	...	...	55F1173	75.12	55F1181	79.25	55F1191	85.53
0-2	0.025	55F448	76.35	...	...	55F1560	79.25	...	...
0-3	0.0166	55F449	76.35	...	...	55F1561	79.25	...	...
0-5	0.010	55F466	76.35	55F1512	75.12	55F1562	79.25	55F1612	85.53
0-10	0.005	...	...	55F1513	75.12	55F1563	79.25	55F1613	85.53
0-15	0.0033	...	...	55F1176	75.12	55F1564	79.25	55F1614	85.53
0-25	0.0020	...	...	55F1177	75.12	...	...	55F1615	85.53
0-30	0.0017	...	...	...	...	55F1182	79.25	55F1192	85.53
0-50	0.001	...	...	55F1178	75.12	55F1566	79.25	...	...
0-100*	10.0	...	...	55F1179	75.12	55F1183	79.25	55F1193	85.53
0-200*	10.0	...	...	...	...	55F1185	79.25	55F1195	85.53
0-300*	10.0	...	...	...	...	...	...	55F1196	85.53
0-500*	10.0	...	...	...	...	...	...	55F1197	85.53

*Requires external shunt; order separately on [15727].

DC MILLIAMMETERS WITH SELF-SHIELDING METER MOVEMENT

0-1	43.0	55F481	72.83	55F1517	74.66	55F1567	75.74	55F1617	81.55
0-3	2.0	...	...	55F1198	74.66	55F2501	75.74	...	...
0-5	2.0(2.0)**	55F482	72.83	55F1518	74.66	...	...	...	...
0-10	10.0(2.2)**	55F483	72.83	55F1519	74.66	...	...	...	...
0-15	6.6(2.2)**	...	...	...	...	55F2502	75.74	...	...
0-20	5.0	...	...	...	...	55F2503	75.74	55F2508	81.55
0-25	4.0(6.0)**	55F485	76.35	55F1520	75.12	55F1570	79.25	...	...
0-50	2.0(3.0)**	55F486	76.35	55F1521	75.12	55F1571	79.25	...	...
0-100	1.0(1.5)**	55F487	76.35	...	...	55F1572	79.25	55F1622	85.07
0-200	0.50(0.75)**	55F489	76.35	55F1524	75.12	...	...	55F1624	85.07
0-250	0.40	...	...	55F2500	75.12	...	...	...	...
0-300	0.33(0.50)**	55F491	76.35	...	...	...	...	...	...
0-500	0.20(0.30)**	55F492	76.35	55F1527	75.12	55F1577	79.25	55F1627	85.07

**Resistance shown in parenthesis for model 1212 only.

DC MICROAMMETERS WITH SELF-SHIELDING METER MOVEMENT

0-50	1800	55F473+	95.47	55F1529	94.86	55F1579	96.54	55F1629	104.19
0-100	1800	55F474	84.76	55F1530	85.83	55F1580	88.59	55F1630	98.38
0-200	1100	...	...	55F1531	77.72	55F1581	81.55	55F1631	88.59
25-0-25	1800	55F477+	95.47	...	...	...	...	...	...
50-0-50	1800	55F478	84.76	55F1533	86.75	55F1583	89.05	55F1633	99.30
100-0-100	1100	55F479	78.18	55F4850	79.25	55F2513	82.16	...	...

+Resistance is 5500Ω.

TAUT BAND DC MICROAMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Resist. (Ω)	Model 1227T 2-1/2"		Model 1327T 3-1/2"		Model 1329T 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-10	4900	...	...	55F2228	156.83	...	...
0-25	1960	55F2225	130.51	55F2230	136.78	...	...
0-100	500	...	...	...	...	55F2237	106.79

AC VOLTMETERS WITH IRON VAN METER MOVEMENT

Range	Resist. (Ω)	Model 1257 2-1/2"		Model 1357 3-1/2"		Model 1359 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-10	133	55F1534	75.12	...	...	...	...
0-50	3,333	...	...	55F2527	77.72	55F2534	85.53
0-150	25,000	55F1535	75.12	55F1585	80.48	55F1635	85.53
0-300	50,000	55F1536	75.12	55F1586	80.48	55F1636	85.53
0-500††	83,333	55F2530	101.75	55F2537	108.78

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WIDE-VUE PANEL METERS (CONT.)

Range	Resist. (Ω)	Model 1257 2-1/2"		Model 1357 3-1/2"		Model 1359 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each

†External multipliers are furnished on AC meters having a range of 500 volts or higher.

AC AMMETERS WITH IRON VANE METER MOVEMENT

Range	Resist. (Ω)	Model 1257 2-1/2"		Model 1357 3-1/2"		Model 1359 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-1	0.213	...	...	55F1537	73.44	55F1587	77.42
0-2	0.065	...	...	55F2589	73.44	55F2596	77.42
0-3	0.028	...	...	...	...	55F2597	77.42
0-5	0.008	55F2582	69.31	55F1538	73.44	55F1588	77.42
0-10	0.004	55F2583	69.31	55F1539	73.44	55F1589	77.42
0-10†	0.008	...	...	48F5566	73.44	...	...
0-15	0.0025	55F2584	69.31	55F1540	73.44	55F1590	77.42
0-25	0.002	55F2585	71.76	55F1541	75.74	55F1591	79.71
0-25†	0.008	...	...	48F5567	73.44	48F5571	77.42
0-50	0.001	55F2586	71.76	55F1542	75.74	55F1592	79.71
0-50†	0.008	...	...	48F5568	73.44	...	...
0-75	0.0002	...	...	55F1008	80.48	...	...
0-75†	0.008	...	...	48F5569	73.44	48F5573	77.42
0-100†	0.008	...	...	...	...	55F2598	77.42
0-200†	0.008	...	...	55F2593	73.44	55F2600	77.42
0-300†	0.008	...	...	55F2594	73.44	...	...

AC MILLIAMMETERS WITH IRON VANE METER MOVEMENT

0-50	80.0	...	...	55F2539	73.44	...	...
0-100	17.2	...	...	55F2540	73.44	...	...
0-250	3.15	...	...	55F2541	73.44	...	...
0-500	.9	55F2538	69.31	...	...	...	...

†Requires external current transformer, order separately. (2417)

TRU-VUE PANEL METERS



Modern, clear acrylic lens to update your panel design. All models shown have black knife-edge pointer and ±2% f.s. accuracy. Available in 5 sizes: 1 1/2", 2 1/2", 3 1/2", 4 1/2", 4 x 6"; go online or call for sizes and ranges not shown. Order external shunts separately on page 1897 and current transformers separately on page 1596.

DC MICROAMMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Model 923 3-1/2"		Model 924 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each
0-100	1800	95F5675	84.76	95F5676	85.99
0-200	1100	95F5679	78.18	95F5680	77.72
100-0-100	1100	95F5683	78.18	95F5684	79.25

DC MILLIAMMETERS (PIVOT AND JEWEL)

0-1	43 (43)*	95F5696	72.83	95F5697	74.66
0-5	2.0 (20)*	95F5700	72.83	95F5701	74.66
0-25	4.0 (6.0)*	95F5704	76.35	95F5705	75.12
0-100	1.0 (1.5)*	95F5708	76.35	95F5709	75.12

*Resistance of 1-1/2" size DC milliammeters are shown in parentheses

DC AMMETERS (PIVOT AND JEWEL)

0-1	0.05	95F5712	76.35	95F5713	75.12
0-5	0.01	95F5716	76.35	95F5717	75.12
0-10	0.005	95F5720	76.35	95F5721	75.12
0-50†	0.001*	95F5724	76.35	95F5725	75.12
0-100†	10.0*	95F5728	76.35	95F5729	75.12
0-500†	10.0*	95F5732	76.35	95F5733	75.12

*1-1/2 size only — 10 ohms † Model 921 1-1/2" requires external shunt order separately on page 1897. ‡

Requires external shunt order separately on page 1897.

DC MILLIVOLTMETERS (PIVOT AND JEWEL)

0-50	10	95F5736	76.35	95F5737	75.12
50-0-50	20	95F5740	76.35	95F5741	75.12

DC VOLTMETERS (PIVOT AND JEWEL)

0-15	1000 Ohms per Volt	95F5744	79.25	95F5745	79.25
0-30		95F5748	79.25	95F5749	79.25
0-50		95F5752	79.25	95F5753	79.25
0-150		95F5756	79.25	95F5757	79.25
0-500*	2000	95F5760	79.25	95F5761	81.55

*Model 921 1- 1/2" requires external multiplier; order separately. Go online or call.

DC MICROAMMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Model 923 3-1/2"		Model 924 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each
0-100	1800	95F5677	88.59	95F5678	98.38
0-200	1100	95F5681	81.55	95F5682	88.59
100-0-100	1100	95F5685	82.16	95F5695	89.05

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TRU-VUE PANEL METERS (CONT.)

DC MILLIAMMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Model 923 3-1/2"		Model 924 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each
0-1	43	95F5698	75.74	95F5699	81.55
0-5	2.0	95F5702	75.74	95F5703	81.55
0-25	4.0	95F5706	79.25	95F5707	85.07
0-100	1.0	95F5710	79.25	95F5711	85.07

DC AMMETERS (PIVOT AND JEWEL)

0-1	0.05	95F5714	79.25	95F5715	85.53
0-5	0.01	95F5718	79.25	95F5719	85.53
0-10	0.005	95F5722	79.25	95F5723	85.53
0-50	0.001	95F5726	79.25	95F5727	85.53
0-100†	10.0	...	...	95F5731	85.53
0-500†	10.0	95F5734	79.25	95F5735	85.53

†Requires external shunt. Order external shunts separately on page 1596.

DC MILLIVOLTMETERS (PIVOT AND JEWEL)

0-50	10	95F5738	79.25	95F5739	85.53
50-0-50	20	95F5742	79.25	95F5743	85.53

DC VOLTMETERS (PIVOT AND JEWEL)

0-15	1000 Ohms per Volt	95F5746	80.17	95F5747	86.60
0-30		95F5750	80.17	95F5751	86.60
0-50		95F5754	80.17	95F5755	86.60
0-150		95F5758	80.17	95F5759	86.60
0-500	2000	95F5762	84.46	95F5763	90.42

AC AMMETERS (IRON VANE)

Range	Resistance (ohms)	Model 953 3-1/2"		Model 954 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each
0-5	0.008	95F5776	73.44	95F5777	77.42
0-15	0.0025	95F5778	73.44	95F5779	77.42
0-25	0.002	95F5780	75.74	95F5542	77.42
0-50	0.001	95F5543	75.74	95F5544	77.42
0-75†	0.008	95F5545	73.44	95F5546	77.42
0-100†	0.008	95F5547	73.44	95F5548	77.42
0-300†	0.008	95F5549	73.44	95F5550	77.42

†Requires external 5A current transformer; sold separately on page 1596.

AC MILLIAMMETERS (IRON VANE)

Range	Resistance (ohms)	Model 953 3-1/2"		Model 954 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each
0-50	80	95F5764	73.44	95F5765	77.42
0-100	17.2	95F5766	73.44	95F5767	77.42

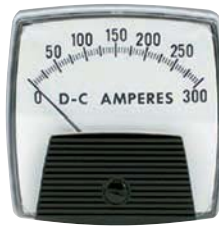
AC VOLTMETERS (IRON VANE)

0-50	3333	95F5768	77.72	95F5769	85.53
0-150	25000	95F5770	80.48	95F5771	85.53
0-300	50000	95F5772	80.48	95F5773	85.53
0-500*	25000	95F5774	80.48	95F5775	85.53

* Requires external multiplier; available separately; go online or call. (2411)

ANALOG (2%)

NEW BIG LOOK PANEL METERS



YOKOGAWA

- Accuracy: ± 2% of full scale
- Meet ANSI specifications C-39.1
- Elements: taut band or pivot jewel
- Front panel surface mount

DC VOLTMETERS — ZERO-LEFT

Meter Range	Meter Movement	1.5 inches			2.5 inches			3.5 inches			4.5 inches			
		Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	
0-1 VDC	Taut Band	250 120 LALA	63K2380	54.60	250 220 LALA	63K2396	57.00	...	...	...	...	...	...
0-10 VDC	Taut Band	250 320 MTMT	65K3145	58.00	...	250 420 MTMT	65K3167	57.75
0-50 VDC	Taut Band	...	...	...	250 220 NTNT	65K3125	57.00	250 320 NTNT	65K3146	58.00	...	...	...
0-100 VDC	Taut Band	250 220 PKPK	65K3126	57.00	250-320-PKPK	65K3147	57.00	...	250 420 PKPK	65K3169	57.75
0-300 VDC	Taut Band	250 120 RXRX	63K2384	54.60	250 220 RXRX	63K2400	57.00	...	...	...	...	...	...

DC MICROAMMETERS — ZERO-LEFT

0-100 µADC	Taut Band	...	...	...	250 200 DRDR	63K2387	53.55	...	...	...	...	...	...
0-200 µADC	Taut Band	250 100 EAEA	63K2373	56.70	250 200 EAEA	63K2388	58.00	...	...	...	...	...	...
0-500 µADC	Taut Band	250 100 EMEM	63K2374	56.70	250 200 EMEM	63K2389	53.55	...	...	...	...	...	...

DC MILLIAMMETERS — ZERO-LEFT

0-1 mA DC	Taut Band	250 200 FAFA	65K3122	50.40	250 300 FAFA	65K3142	51.45
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DC AMMETERS — ZERO-LEFT

0-1 ADC	Taut Band	250 100 LALA	63K2378	56.70	250 200 LALA	63K2393	58.00
0-5 ADC	Taut Band	250 100 LSLS	65K3118	56.70	250-200-LSLS	63K2394	57.00	...	...	...	...	...	...
0-10 ADC	Taut Band	...	...	...	250 200 MTMT	65K3123	57.00	250 300 MTMT	65K3143	54.60	250 400 MTMT	65K3165	57.75
0-20 ADC	Taut Band	...	...	...	...	...	...	...	...	...	250 400 NGNG	65K3166	57.75
0-30 ADC	Taut Band	...	...	...	250 200 NLNL	63K2395	58.00	...	...	...	...	...	...

AC VOLTMETERS — SELF-CONTAINED, IRON VANE TYPE, 60Hz

0-150 VAC	Pivot and Jewel	...	...	...	250 244 PZPZ	65K3140	56.00	250 344 PZPZ	65K3160	58.42	250 444 PZPZ	65K3181	58.80
0-300 VAC	Pivot and Jewel	...	...	...	250 244 RXRX	65K3141	57.00	250 344 RXRX	65K3161	59.00	250 444 RXRX	65K3182	65.10
0-500 VAC	Pivot and Jewel	...	...	...	...	...	...	250 344 SF SF	65K3162	65.00	...	...	...
0-600 VAC	Pivot and Jewel	...	...	...	...	...	...	250-344-SJSJ	65K3163	65.00	250 444 SJSJ	65K3184	70.00

AC AMMETERS — SELF-CONTAINED, 25-400Hz, IRON VANE

0-5 AAC	Pivot and Jewel	250 240 LSLS	65K3127	51.45	250 340 LSLS	65K3148	56.70	250 440 LSLS	65K3170	66.00
0-10 AAC	Pivot and Jewel	250 240 MTMT	65K3139	51.45	

AC AMMETERS — TRANSFORMER-RATED, 0-5A, 25-500Hz, IRON VANE

0-50 AAC	Pivot and Jewel	...	...	...	250 240 LSNT	65K3128	56.00	250 340 LSNT	65K3149	61.00	250 440 LSNT	65K3171	66.00
0-75 AAC	Pivot and Jewel	...	...	...	250 240 LSPB	65K3129	51.45	250 340 LSPB	65K3150	56.70	250 440 LSPB	65K3172	66.00
0-100 AAC	Pivot and Jewel	...	...	...	250 240 LSPK	65K3130	51.45	250 340 LSPK	65K3151	61.00	250 440 LSPK	65K3173	66.00
0-150 AAC	Pivot and Jewel	...	...	...	250 240 LSPZ	65K3131	56.00	250 340 LSPZ	65K3152	61.00	250 440 LSPZ	65K3174	63.00
0-200 AAC	Pivot and Jewel	...	...	...	250 240 LSRL	65K3134	56.00	250 340 LSRL	65K3155	61.00	250 440 LSRL	65K3175	60.90
0-300 AAC	Pivot and Jewel	...	...	...	250 240 LSRX	65K3135	59.00	250 340 LSRX	65K3156	61.00	250 440 LSRX	65K3176	66.00
0-400 AAC	Pivot and Jewel	...	...	...	250 240 LSSC	65K3136	56.00	250-340-LSSC	65K3157	61.00	250 440 LSSC	65K3177	66.00
0-500 AAC	Pivot and Jewel	...	...	...	250 240 LSSF	65K3137	56.00	...	...	...	250 440 LSSF	65K3178	66.00
0-800 AAC	Pivot and Jewel	...	...	...	...	...	...	...	...	...	250 440 LSSN	65K3179	60.90
0-1 kAAC	Pivot and Jewel	250 240 LSVA	65K3138	59.00	250-340-LSVA	65K3159	61.00	250 440 LSVA	65K3180	60.90

(87060)

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(148837)

HORIZON LINE PANEL METERS



YOKOGAWA ◆

- Accuracy: ± 2% of full scale
- Meet ANSI specifications C-39.1
- Elements: taut band or pivot jewel
- Front panel surface mount
- Rear panel mounting available; *go online or call*

DC VOLTMETERS — ZERO-LEFT

Meter Range	Meter Movement	1.5 inches			2.5 inches			3.5 inches			4.5 inches		
		Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-10 VDC	Taut Band	251 120 MTMT	65K3186	52.50	251-220-MTMT	65K3192	52.50	...	...	251 420 MTMT	65K4615	57.75	
0-50 VDC	Taut Band	251 120 NTNT	65K3187	54.60	251 220 NTNT	65K3193	52.50	251-320-NTNT	65K3204	53.55	251 420 NTNT	65K4616	57.75
0-100 VDC	Taut Band	251 120 PKPK	65K3188	54.60	251 220 PKPK	65K3194	52.50	251 320 PKPK	65K3205	53.55	251-420-PKPK	65K4617	62.00

DC MILLIAMMETERS — ZERO-LEFT

0-1 mADC	Taut Band	251 200 FAFA	65K3189	50.40	251 400 FAFA	65K4612	54.60
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DC AMMETERS — ZERO-LEFT

0-5 ADC	Taut Band	251 200 LSL	65K3190	53.55	251 300 LSL	65K3202	59.00	251 400 LSL	65K4613	57.75
0-10 ADC	Taut Band	...	...	...	251 200 MTMT	65K3191	53.55	251 300 MTMT	65K4611	59.00	251 400 MTMT	65K4614	57.75

AC VOLTMETERS — SELF-CONTAINED, IRON VANE TYPE, 60Hz

0-150 VAC	Pivot and Jewel	...	...	...	251 244 PZPZ	65K3199	56.00	251-344-PZPZ	19M0127	59.00	251-444-PZPZ	19M0135	61.00
0-300 VAC	Pivot and Jewel	...	...	...	251 244 RXXR	65K3200	53.55	251-344-RXXR	19M0131	58.00	251-444-RXXR	19M0144	58.80

AC AMMETER — SELF-CONTAINED, 25-400Hz, IRON VANE

0-5 AAC	Pivot and Jewel	251 240 LSL	65K3195	56.00	251-340-LSL	87K2506	59.00	251-440-LSL	19M0149	66.00
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AC AMMETERS — TRANSFORMER-RATED, 0-5a, 25-400Hz, IRON VANE

0-50 AAC	Pivot and Jewel	251 240 LSNT	65K3196	56.00	251-340-LSNT	03M5322	61.00	251-440-LSNT	89K7891	60.70
0-150 AAC	Pivot and Jewel	...	...	...	251 240 LSPZ	65K3197	56.00	251-340-LSPZ	19M0154	61.00	251-440-LSPZ	19M0163	63.00
0-500 AAC	Pivot and Jewel	...	...	...	251 240 LSSF	65K3198	56.00	251-340-LSSF	19M0159	61.00	251-440-LSSF	19M0546	63.00

AC FREQUENCY METERS — SELF-CONTAINED, ACCURACY ±3% OF SPAN

45-55 HzAC	Pivot and Jewel	...	...	...	254 250 AGAG	63K2404	110.25	254-350-AGAG	19M0558	113.40	254-450-AGAG	19M0567	116.55
45-65HzAC	Pivot and Jewel	...	...	...	254 250 AJAJ	63K2405	110.25	254-350-AJAJ	19M0560	122.00	254-450-AJAJ	19M0584	116.55
55-65 HzAC	Pivot and Jewel	...	...	...	254250ANAN	64K0359	118.00	254-350-ANAN	81C7474	122.00	254-450-ANAN	74K0694	102.40

AC LOAD INDICATORS — 5A CURRENT TRANSFORMER RATED, 60Hz, IRON VANE TYPE

0-150 AAC	Pivot and Jewel	...	...	...	251 240 LSPZ7AAA	65K3132	57.75	251 340 LSPZ7AAA	65K3153	59.85	...	...
0-150 AAC	Pivot and Jewel	...	...	...	251 240 LSPZ7AAB	65K3133	67.20	251 340 LSPZ7AAB	65K3154	69.30	...	...
0-150 AAC	Pivot and Jewel	...	...	...	...	...	...	251-340-LSPZAAAJ	18M1367	59.85	251-440-LSPZ7AAJ	19M0596	65.10
0-150 AAC	Pivot and Jewel	...	...	...	...	...	...	251-340-LSPZ7AAK	19M1351	69.30	251-440-LSPZ7AAK	19M0600	60.90

(87062)

STYLIST SERIES PANEL METERS



YOKOGAWA ◆

- Accuracy: ± 2% of full scale
- Meet ANSI specifications C-39.1
- Elements: taut band or pivot jewel
- Front panel surface mount
- Rear panel window mounting, rear panel surface mounting also available; *go online or call*
- Also available with optional bezel; *go online or call*

DC VOLTMETERS — ZERO-LEFT

Meter Range	Meter Movement	1.5 inches			2.5 inches			3.5 inches			4.5 inches		
		Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-10 VDC	Taut Band	260 120 MTMT	65K4619	53.55	260 220 MTMT	65K4629	51.45	260-320-MTMT	83K9438	57.00	260-420-MTMT	19M1153	56.70
0-50 VDC	Taut Band	260 120 NTNT	65K4620	53.55	...	...	...	260-320-NTNT	19M0613	57.00	260-420-NTNT	19M1156	61.00
0-100 VDC	Taut Band	...	...	...	...	...	...	260-320-PKPK	19M0617	52.50	260-420-PKPK	19M1158	56.40
0-600 VDC	Taut Band	...	...	...	260 220 SJSJ	65K4627	51.45	260-320-SJSJ	19M0623	57.00	260-420-SJSJ	19M1159	57.75
0-750 VDC	Taut Band	...	...	...	...	...	...	260-320-SMSM	19M0625	57.00	260-420-SMSM	19M1161	60.00

DC MILLIAMMETERS — ZERO-LEFT

0-1 mADC	Taut Band	260 100 FAFA	65K4618	51.45	260-300-FAFA	19M0631	50.40	260-400-FAFA	16M4859	60.00
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DC AMMETERS — ZERO-LEFT, SELF-CONTAINED

0-5 ADC	Taut Band	260 200 LSL	65K4622	52.50	260-300-LSL	19M0633	53.55	260-400-LSL	19M1168	57.75
0-10 ADC	Taut Band	...	...	...	260 200 MTMT	65K4623	52.50	260-300-MTMT	19M0637	53.55	260-400-MTMT	19M1172	56.70
0-15 ADC	Taut Band	...	...	...	260 200 NDND	65K4624	52.50	260-300-NDND	19M0640	53.55	260-400-NDND	19M1214	57.75
0-20 ADC	Taut Band	...	...	...	260 200 NGNG	65K4625	52.50	260-300-NGNG	19M0644	58.00	260-400-NGNG	19M1216	57.75

AC VOLTMETERS — IRON VANE, SELF CONTAINED, 60Hz

0-150 VAC	Pivot and Jewel	...	...	...	260-244-PZPZ	19M1228	57.00	260-344-PZPZ	19M1230	55.65	260-444-PZPZ	03M5254	59.85
0-600 VAC	Pivot and Jewel	...	...	...	260-244-SJSJ	19M1237	54.00	260-344-SJSJ	19M1241	60.00	260-444-SJSJ	83K9807	65.00

AC AMMETERS — IRON VANE, SELF-CONTAINED, 50-400Hz

0-5 AAC	Pivot and Jewel	260-240-LSL	02M6086	54.00	260-340-LSL	19M1243	55.65	260-440-LSL	19M1246	59.85
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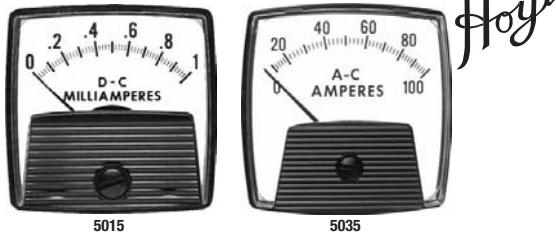
AC AMMETERS — IRON VANE, TRANSFORMER RATED, 0-5A, 50-400Hz

0-10 AAC	Pivot and Jewel	260-240-LSMT	19M1249	50.40	260-340-LSMT	19M1251	60.00	260-440-LSMT	19M1253	59.85
0-20 AAC	Pivot and Jewel	...	...	...	260-240-LSNG	19M1266	59.55	260-340-LSNG	19M1270	64.04	260-440-LSNG	19M1273	59.85

(87063)

ANALOG (5%)

5000 SERIES ANALOG PANEL METERS



Feature dust resistant construction. Gasket sealing design provides gasket sealing while allowing for quick modification and scale changes while maintaining the integrity of the instruments. Made with UL 94V material. Ideal where impact and strength is required in harsh environments. Accuracy: ±2%. Overload: Voltmeters (AC and DC) 50% momentary, 20% sustained. Ammeters (AC and DC) momentary: 10 times the rated current for 10 consecutive intervals of 0.5 seconds with 1 minute interval between successive applications; 20% for 6 hours.

1.5" SQUARE

Mfg. Part No.	Meter Function	Meter Range	Stock No.	Price Each
5015R-50MAAC-50AAC	AC Ammeter	0-50 mAAC / 50 AAC	84K7393	92.15
5015R-100MAAC-100AAC	AC Ammeter	0-100 mAAC / 100 AAC	84K7392	92.15
5016R-150VAC	AC Voltmeter	0-150 VAC	84K7394	92.15
5016R-300VAC	AC Voltmeter	0-300 VAC	84K7395	92.15
5015-50MVDC-50ADC	DC Ammeter/ DC Millivoltmeter	0-50 mV / 0-50 A	84K7390	72.73
5015-50MVDC-100ADC	DC Ammeter/ DC Millivoltmeter	0-50 mV / 0-100 A	84K7389	100.00
5015-15VDC	DC Voltmeter	0-15 VDC	84K7388	72.25
5015-50VDC	DC Voltmeter	0-50 VDC	84K7391	95.00

2.5" SQUARE

5026-5AAC-50AAC	AC Ammeter	0-5 AAC / 50 AAC	84K7405	103.00
5026-5AAC-100AAC	AC Ammeter	0-5 AAC / 100 AAC	84K7404	95.48
5026-150VAC	AC Voltmeter	0-150 VAC	84K7400	73.45
5026-300VAC	AC Voltmeter	0-300 VAC	84K7401	90.00
5025-50MVDC-50ADC	DC Ammeter/ DC Millivoltmeter	0-50 mVDC / 0-50 ADC	84K7398	73.55
5025-50MVDC-100ADC	DC Ammeter/ DC Millivoltmeter	0-50 mVDC / 0-100 ADC	84K7397	103.74
5025-15VDC	DC Voltmeter	0-15 VDC	84K7396	77.35
5025-50VDC	DC Voltmeter	0-50 VDC	84K7399	100.00
5026-45-65HZ-120V	Frequency	45-65 HzAC / 120 VAC	84K7402	235.00
5026-45-65HZ-240V	Frequency	45-65 HzAC / 240 VAC	84K7403	191.85

3.5" SQUARE

5036-5AAC-100AAC	AC Ammeter	0-100 AAC / 5 AAC	84K7417	100.00
5036-5AAC-200AAC	AC Ammeter	0-200 AAC / 5 AAC	84K7418	70.20
5036-5AAC-300AAC	AC Ammeter	0-300 AAC / 5 AAC	84K7419	70.20
5036-5AAC-500AAC	AC Ammeter	0-500 AAC / 5 AAC	84K7420	70.20
5036-300VAC-MOD	AC Voltmeter	0-300 VAC	73K5492	35.63
5036-150VAC	AC Voltmeter	0-150 VAC	84K7414	78.85
5036-600VAC	AC Voltmeter	0-600 VAC	84K7421	143.11
5035-50MVDC-50ADC	DC Ammeter	0-50 ADC / 50 mVDC	84K7411	77.35
5035-50MVDC-100ADC	DC Ammeter	0-100 ADC / 50 mVDC	84K7409	78.75
5035-50MVDC-300ADC	DC Ammeter	0-300 ADC / 50 mVDC	84K7410	110.00
5035-50MVDC-500ADC	DC Ammeter	0-500 ADC / 50 mVDC	84K7412	90.00
5035-15VDC	DC Voltmeter	0-15 VDC	84K7406	80.25
5035-30VDC	DC Voltmeter	0-30 VDC	84K7408	80.25
5035-50VDC	DC Voltmeter	0-50 VDC	84K7413	80.25
5035-150VDC	DC Voltmeter	0-150 VDC	84K7407	90.00
5036-45-65HZ-120V	Frequency	45-65 HzAC / 120 VAC	84K7415	180.00
5036-45-65HZ-240V	Frequency	45-65 HzAC / 240 VAC	84K7416	175.00

(88567)

CK-900 AND 3100 SERIES PANEL METERS



CK910



CK920 & CK930

➤ CONTINUED ➤

CK-900 AND 3100 SERIES PANEL METERS (CONT.)



H3135



H3145

CK-900 series panel meters are very popular for marine applications. 5% accuracy. Available in most AC/DC ranges and can be installed with window or surface mounting. Feature high impact translucent cases, operating zero adjusters and illumination options to enhance the backlighting of the instrument. Connections are made through the 1/4" quick disconnect terminals which may also serve as solder tabs.

CK-910 SERIES — 1.5" RECTANGLE

Mfg. Part No.	Meter Function	Meter Range	Stock No.	Price Each
CK910-AACT-50	AC Ammeter	0-50 mAAC / 50 AAC	84K7314	49.95
CK910-AACT-100	AC Ammeter	0-100 mAAC / 100 AAC	84K7313	18.00
CK910-AAC-001	AC Ammeter	0-1 AAC	84K7311	21.00
CK910-AAC-010	AC Ammeter	0-10 AAC	84K7312	49.95
CK910-AV-150	AC Voltmeter	0-150 VAC	84K7315	19.00
CK910-AV-300	AC Voltmeter	0-300 VAC	84K7316	17.86
CK910-DMA-001	DC Milliammeter	0-1 mADC	84K7321	49.95
CK910-OMA-010	DC Milliammeter	0-10 mADC	84K7330	18.00
CK910-DMA-1-0-1	DC Milliammeter	1-0-1 mADC	84K7322	29.00
CK910-DAA-001	DC Ammeter	0-1 ADC	84K7317	49.95
CK910-DAA-003	DC Ammeter	0-3 ADC	84K7318	49.95
CK910-DAA-005	DC Ammeter	0-5 ADC	84K7319	49.95
CK910-DAA-020	DC Ammeter	0-20 ADC	84K7320	49.95
CK910-DVV-005	DC Voltmeter	0-5 VDC	84K7324	49.95
CK910-ODVV-015	DC Voltmeter	0-15 VDC	84K7326	49.95
CK910-ODVV-030	DC Voltmeter	0-30 VDC	84K7327	30.00
CK910-ODVV-050	DC Voltmeter	0-50 VDC	84K7328	49.95
CK910-DVV-100	DC Voltmeter	0-100 VDC	84K7325	49.95

CK-920 SERIES — 2.5" RECTANGLE

CK920-AACT-100	AC Ammeter	0-100 mAAC / 100 AAC	84K7334	23.45
CK920-AACT-50	AC Ammeter	0-50 mAAC / 50 AAC	84K7335	49.95
CK920-AAC-1	AC Ammeter	0-1 AAC	84K7331	24.00
CK920-AAC-5	AC Ammeter	0-5 AAC	84K7333	39.00
CK920-AAC-10	AC Ammeter	0-10 AAC	84K7332	24.00
CK920-AV-25	AC Voltmeter	0-25 VAC	84K7338	49.95
CK920-ACV-150	AC Voltmeter	0-150 VAC	84K7336	23.45
CK920-AV-300	AC Voltmeter	0-300 VAC	84K7339	49.95
CK920-DMA-005	DC Milliammeter	0-5 mADC	84K7340	49.95
CK920-DMA-010	DC Milliammeter	0-10 mADC	84K7341	17.86
CK920-DMA-025	DC Milliammeter	0-25 mADC	84K7342	49.95
CK920-DMA-100	DC Milliammeter	0-100 mADC	84K7343	19.00
CK920-DMA-300	DC Milliammeter	0-300 mADC	84K7344	20.07
CK920-DMA-500	DC Milliammeter	0-500 mADC	84K7345	49.95
CK920-DVV-005	DC Voltmeter	0-5 VDC	84K7346	49.95
CK920-DVV-010	DC Voltmeter	0-10 VDC	84K7347	49.95
CK920-DVV-015	DC Voltmeter	0-15 VDC	84K7348	22.37
CK920-DVV-30	DC Voltmeter	0-30 VDC	84K7351	20.26
CK920-DVV-50	DC Voltmeter	0-50 VDC	84K7352	49.95
CK920-DVV-100	DC Voltmeter	0-100 VDC	84K7349	49.95

CK-930 SERIES — 3.5" RECTANGLE

CK930-AACT-100	AC Ammeter	0-100 mAAC / 100 AAC	84K7353	22.00
CK930-AACT-50	AC Ammeter	0-50 mAAC / 50 AAC	84K7354	49.95
CK930-ACV-150	AC Voltmeter	0-150 VAC	84K7355	23.00
CK930-AV-300	AC Voltmeter	0-300 VAC	84K7357	29.00
CK930-DAA-003	DC Ammeter	0-3 ADC	84K7359	21.34
CK930-DAA-001	DC Ammeter	0-1 ADC	84K7358	49.95
CK930-DCA-005	DC Ammeter	0-5 ADC	84K7361	42.00
CK930-DAA-010	DC Ammeter	0-10 ADC	84K7360	49.95
CK930-DMA-001	DC Milliammeter	0-1 mADC	84K7362	49.95
CK930-DMA-010	DC Milliammeter	0-10 mADC	84K7363	49.95
CK930-DMA-500	DC Milliammeter	0-500 mADC	84K7365	49.95
CK930-DMA-5-0-5	DC Milliammeter	5-0-5 mADC	84K7364	36.25
CK930-DVV-15	DC Voltmeter	0-15 VDC	84K7367	49.95
CK930-DVV-30	DC Voltmeter	0-30 VDC	84K7368	49.95
CK930-DVV-050	DC Voltmeter	0-50 VDC	84K7366	20.68

3100 series panel meters have an industrial styled polycarbonate case that is available for surface, window or bezel mounting. Available in 4 sizes: 1 1/2", 2 1/2", 3 1/2" and 4 1/2". Accuracy ±2% full scale value. Spring loaded pivot and jewel movements.

➤ CONTINUED ➤

ANALOG (5%) • ANALOG METER RELAYS • ANALOG SWITCHBOARDS

CK-900 AND 3100 SERIES PANEL METERS (CONT.)

3100 SERIES — 3.5" RECTANGLE

Mfg. Part No.	Meter Function	Meter Scale	Stock No.	Price Each
3135-50ADC-SC	DC Ammeter	0-50 ADC	84K7381	99.50

3100 SERIES — 4.5" RECTANGLE

H3145-DMA-001	DC Milliammeter	0-1 mADC	84K7382	80.20
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(88563)

M SERIES MOVING-MAGNET PANEL METERS



Jewell Instruments MODUTEC



- 5% Accuracy of Full Scale
- Flush or Surface Mount without Modification

Quality meters feature high-torque, powerful ballistic movements that permit mounting in steel panels without special calibration and production-engineered mounting and electrical connections. OMS and MSQ series are square meters with operating zero adjusters and scales printed on translucent plastic. ME series edgewise meters are interchangeable with many d'Arsonval meters. Feature flush-to-panel covers, no disfiguring bulge. 3MAS series rectangular 3 1/2" meters have operating zero adjusters and scales printed on translucent plastic, permitting diffused lighting. All M series meters operating temperature range: 0° to +50°C.

DC MILLIAMMETERS

Range	OMS Series 1-1/2" Square			MSQ Series 2-1/2" Square		
	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-1	OMS-DMA-001-U	62F3541	20.25	MSQ-DMA-001-U	54F1032	22.45
0-5	OMS-DMA-005-U	62F3542	20.25	...	...	...
0-10	OMS-DMA-010-U	87F2559	20.25	MSQ-DMA-010-U	87F2560	22.45
1-0-1	OMS-DMA-1U1-U	44F4762	21.75	MSQ-DMA-1U1-U	44F4779	23.95

DC AMMETERS

0-5	OMS-DAA-005-U	62F3544	20.25	MSQ-DAA-005-U	54F1024	22.45
0-10	...	...	...	MSQ-DAA-010-U	54F1025	22.45
0-20	OMS-DAA-020-U	44F4763	20.25	MSQ-DAA-020-U	44F4780	22.45
0-30	...	...	...	MSQ-DAA-030-U	54F1026	22.45

DC VOLTMETERS

0-10	OMS-DVW-010-U	44F4766	21.35	MSQ-DVW-010-U	44F4782	23.55
0-15	OMS-DVW-015-U	62F3546	21.35	MSQ-DVW-015-U	54F1013	23.55
0-30	OMS-DVW-030-U	44F4767	21.35	MSQ-DVW-030-U	54F1014	23.55
0-50	OMS-DVW-050-U	62F3547	21.35	MSQ-DVW-050-U	54F1015	23.55
0-100	OMS-DVW-100-U	44F4768	21.35	MSQ-DVW-100-U	54F1016	23.55

AC AMMETERS

0-1	OMS-AAA-001-U	44F4771	24.65	MSQ-AAA-001-U	44F4785	26.85
0-5	OMS-AAA-005-U	44F4772	24.65	MSQ-AAA-005-U	44F4786	26.85
0-10	OMS-AAA-010-U	44F4773	24.65	MSQ-AAA-010-U	44F4787	26.85

AC VOLTMETERS

0-150	OMS-AVV-150-U	62F3549	22.45	MSQ-AVV-150-U	54F1006	24.65
0-300	OMS-AVV-300-U	62F3550	22.45	MSQ-AVV-300-U	54F1007	24.65

DC MILLIAMMETERS

Range	3MAS Series 3-1/2" Rectangular			ME Series 2" Edgewise		
	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-1	3MAS-DMA-001-U	54F1035	24.65	ME-DMA-001-U	54F1029	19.15
0-10	3MAS-DMA-010-U	87F2561	24.65	ME-DMA-010-U	87F2543	19.15
1-0-1	...	...	...	ME-DMA-1U1-U	44F4795	20.65

DC AMMETERS

0-5	3MAS-DAA-005-U	54F1027	24.65	ME-DAA-005-U	54F1020	19.15
0-10	...	...	...	ME-DAA-010-U	44F4798	19.15
0-20	...	...	...	ME-DAA-020-U	44F4799	19.15

DC VOLTMETERS

0-10	...	...	...	ME-DVW-010-U	44F4802	19.15
0-15	3MAS-DVW-015-U	54F1018	25.75	ME-DVW-015-U	54F1010	19.15
0-30	...	...	...	ME-DVW-030-U	44F4803	19.15
0-50	3MAS-DVW-050-U	54F1019	25.75	ME-DVW-050-U	54F1011	19.15
0-100	...	...	...	ME-DVW-100-U	44F4804	19.15

AC AMMETERS

0-1	...	...	...	ME-AAA-001-U	44F4808	22.45
0-5	...	...	...	ME-AAA-005-U	44F4809	22.45
0-10	...	...	...	ME-AAA-010-U	44F4810	22.45

AC VOLTMETERS

0-150	3MAS-AVV-150-U	54F1008	26.85	...	...	...
0-300	3MAS-AVV-300-U	54F1009	26.85	...	...	...

➔ CONTINUED ➔

M SERIES MOVING-MAGNET PANEL METERS (CONT.)

DC MICROAMMETERS WITH 500-0-500 RANGE

Mfg. Part No.	Description	Stock No.	Price Each
3MAS-DUA-5H5-U	3MAS Series 3 1/2" Rectangular	87F2557	26.15

(3470)

MOTOR LOAD METER RELAYS

In addition to offering action at one or two set points the Simpson motor load relay provides visual monitoring of motor load current. The controller measures the AC current of a motor and indicates the value on a 0-150% dial. The combined features of time delay, gain adjust, and auto/manual reset provide complete relay switching for alarm, motor shutdown or other corrective action. Specifically designed for harsh environments, the Model 3300 series is housed in a metal case that gives complete magnetic isolation for steel panel mounting. The "Rugged Seal" construction withstands rigorous environmental conditions. Each controller is moisture, dust and dirt proof. Size: 4 1/2". Input: 0-SACA. Use with 5A current transformers order separately on page 1596.



Mfg. Part No.	Size (in.)	Input (AC Amps)	Set Points	Stock No.	Price Each
21643 +	4.5	0-5	2	01B7060	569.62
21683 +	4.5	0-5	1	01B7070	479.66

+ Use with 5A transformer; sold separately (73288)

"CROMPTON" 4 1/2" SWITCHBOARDS



Ammeter



Frequency Meter



Voltmeter

077 series has one piece flame retardant polycarbonate window. The window is contoured to minimize reflection from adjacent light sources. General options include supplementary red pointer, slave pointer, calibration for non-standard ambient temperatures, special scales, trim potentiometers, and illuminated dials with white or red light sources.

AMMETERS

5A transformer rated.

Mfg. Part No.	Description	Scaling	Stock No.	Price Each
077-05FA-LSPK-C6	Displays	0-100A	24C7651	264.16
077-05FA-LSRL-C7	Switchboard	0-200A	70C4206	264.16
077-05FA-LSRX-C6	Panel Instrument	0-300A	97B3294	264.16
077-05FA-LSSJ-C6	Panel Instrument	0-600A	97B3292	264.16

FREQUENCY METERS

Use 10-32 UNF Terminals

Mfg. Part No.	Rating	Scaling	Stock No.	Price Each
077-41LA-PNAN-AN	60Hz +/- 0.15	55-65 Hz	94B8728	842.57

VOLTMETERS

Transformer rated: 50/60Hz (Accuracy ±1%) 0.8VA @ 150V.

Mfg. Part No.	Rating (VAC)	Scaling	Stock No.	Price Each
077-05GA-PZRX-C6	150	0-300V	09J4224	282.88
077-05GA-PZPZ-C6	150	0-600V	07H2938	282.88
077-05GA-PZSJ-C6	150	0-600V	88F1870	294.20
077-05GA-RXRX-C6	300	0-300V	09J4225	338.54
077-05GA-SJSJ-C7	600	0-600V	09J4226	346.32

(80268)

Huge Expanded Selection of Semiconductors

Go online to find new technologies and proven solutions from world-class and specialist suppliers.

(148843)

ANALOG SWITCHBOARDS • SHUNTS

SWITCHBOARDS



AB/DB-14



AB/DB-40



AB/DB-16



DC VOLTMETERS — ZERO-LEFT

Meter Range	Meter Movement	AB/DB-14			AB/DB-40			AB/DB-16		
		Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-50 VDC	Moving Coil	101 013 NTNT	63K4466	401.00	103 011 NTNT	63K4492	261.00	...	...	...
0-150 VDC	Moving Coil	101 013 PZPZ	63K4467	401.00	103 011 PZPZ	63K4493	280.00	...	...	...
0-600 VDC	Moving Coil	101 013 SJSJ	63K4471	434.00	103 011 SJSJ	63K4494	342.00	121 011 SJSJ	63K4559	480.00

DC MICROAMMETERS — ZERO-LEFT, SELF-CONTAINED

0-500 µADC	Moving Coil	103-111-EMEM	74K0564	252.00	121 111 EMEM	63K4551	413.00
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DC MILLIAMMETERS — ZERO-LEFT, SELF-CONTAINED

0-1 mADC	Moving Coil	101 113 FAFA	63K4472	394.00	103-111-FAFA	19M1298	394.00	121 111 FAFA	63K4552	470.00
0-500 mADC	Moving Coil	101-113-KMKM	19M1284	394.00	103-111-KMKM	19M1287	274.00	121 111 KMKM	63K4555	441.00

DC AMMETERS — ZERO-LEFT, SELF-CONTAINED

0-5 ADC	Moving Coil	101 113 LSLs	63K4476	424.00	103-111-LSLs	19M1302	301.00	121 111 LSLs	63K4556	425.00
0-15 ADC	Moving Coil	101-113-NDND	19M1288	424.00	103-111-NDND	19M1289	301.00	121 111 NDND	63K4557	441.00
0-30 ADC	Moving Coil	101 113 NLNL	63K4477	424.00	103-111-NLNL	19M1313	281.00	121 111 NLNL	63K4558	425.00

AC VOLTMETERS — ZERO-LEFT, SELF-CONTAINED

0-150 VAC	Moving Coil	101 023 PZPZ	63K4468	385.00	103 021 PZPZ	63K4495	265.00	121 021 PZPZ	63K4560	437.00
0-600 VAC	Moving Coil	101 023 SJSJ	63K4469	457.00	103 021 SJSJ	63K4496	360.17	121 021 SJSJ	63K4561	467.00

AC AMMETERS — ZERO-LEFT, SELF-CONTAINED

0-1 AAC	Moving Coil	101-133-LALA	19M1295	357.00	103 131 LALA	63K4507	231.00	121 131 LALA	63K4564	387.00
0-5 AAC	Moving Coil	...	...	...	103 131 LSLs	63K4508	248.00	121 131 LSLs	63K4565	387.00
0-30 AAC	Moving Coil	101 133 NLNL	63K4482	368.00	103 131 NLNL	63K4509	248.00	121 131 NLNL	63K4567	387.00

AC FREQUENCY METERS, 120V

45-55 HzAC	Moving Coil	121-372-AGAG	19M1328	882.00
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SYNCHROSCOPES, 120V

Slow-Fast	Pivot and Jewel	120 452 AAAA	63K4576	938.00
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TEMPERATURE INDICATORS — (LEAD RESISTANCE = 0.3 OHMS)

20-140° C	Moving Coil	121-502-CAAB	19M1290	948.00
0-180°F	Moving Coil	...	...	...	103 502 CDCD	63K4521	779.00	121 502 CDCD	63K4577	948.00

POWER-FACTOR METERS — 3-PHASE, 3- AND 4-WIRE, 50/60Hz, BALANCED SYSTEM ONLY

Meter Range	Meter Movement	Rating (A)	Rating (L-L Volts)	AB-40			AB-16		
				Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0.5-1-0.5	Moving Coil	5	120	103-402-FCAD	63K4517	657.00	121-402-FCAD	19M1319	747.00

(87067)

7

“CROMPTON” EXTERNAL SWITCHBOARD AND PORTABLE SHUNTS



FN 100-50mV



TM-100-50



FJ-1500-50

Features:

- Accuracy +/- 1/4% (0.25%)
- Temperature coefficient of resistance: +/- 0.000015 between 40-60° C
- Standard 50mV drop

DC Shunts are a separately mounted device for extending the measured current beyond the limits of self-contained DC ammeters. Switchboards non-insulated style, are for use on Busbar in Switchgear applications. Base-mounted insulated types are for light control panels, educational and laboratory application. Lightweight insulated units are for industrial application where strength and applications where space savings are needed, or for Military applications where dimension to MIL 10304 is required. For use with BUS. Standard 50mV drop; 60A, 70A, 100A, and 150mV units also available, call Newark.

SWITCHBOARD TYPE

Mfg. Part No.	Amp	Stock No.	Price Each
FH-15-50	15	42M3817	18.72
FH-20-50	20	42M3820	18.72
FH-30-50	30	42M3822	18.72
FH-40-50	40	42M3823	18.72
FH-50-50	50	42M3825	18.72
FH-60-50	60	42M3826	18.72
FH-75-50	75	42M3827	18.72
FH-80-50	80	42M3828	18.72
FH-100-50	100	42M3815	18.72
FH-125-50	125	42M3816	18.72
FH-150-50	150	42M3818	18.72
FH-175-50	175	42M3819	18.72
FH-200-50	200	09J4219	18.72

▶ CONTINUED ▶

“CROMPTON” EXTERNAL SWITCHBOARD AND PORTABLE SHUNTS (CONT.)

Mfg. Part No.	Amp	Stock No.	Price Each
FH-250-50	250	42M3821	18.72
FH-300-50	300	09J4220	18.72
FH-400-50	400	42M3824	22.88
FH-500-50	500	09J4221	26.00
FI-600-50	600	42M3830	40.56
FI-750-50	750	17M9151	43.68
FI-800-50	800	17M9508	46.80
FI-1000-50	1000	11J6979	89.44
FI-1200-50	1200	42M3829	98.80
FJ-1500-50	1500	42M3831	114.40
FJ-2000-50	2000	42M3832	134.16
FL-2500-50	2500	22C8594	192.40
FL-3000-50	3000	23H0204	241.80
FL-4000-50	4000	42M3835	301.60
FL-4500-50	4500	42M3836	347.36
FL-5000-50	5000	42M3837	358.80
FL-6000-50	6000	42M3838	424.32
FL-7000-50	7000	42M3839	501.28
FL-7500-50	7500	42M3840	551.20
FL-8000-50	8000	42M3841	608.92
FL-9000-50	9000	42M3842	692.64
FL-10000-50	10000	42M3833	752.96
FL-12000-50	12000	42M3834	965.12

BASE MOUNT PORTABLE TYPE

FN-1-50	1	09J4222	18.72
FN-2-50	2	26H1403	18.72
FN-5-50	5	92F5447	18.72
FN-10-50	10	93B9571	18.72
FN-20-50	20	42M3843	18.72
FN-25-50	25	92F5449	18.72

▶ CONTINUED ▶

SHUNTS • POWER MONITORS

“CROMPTON” EXTERNAL SWITCHBOARD AND PORTABLE SHUNTS (CONT.)

BASE MOUNT PORTABLE TYPE

Mfg. Part No.	Amp	Stock No.	Price Each
FN-50-50	50	92F5450	18.72
FN-75-50	75	26H5927	18.72
FN-100-50	100	92F5451	25.00
FN-150-50	150	04H6680	18.72
FN-200-50	200	92F5452	18.72
FN-250-50	250	42M3844	20.80
FN-300-50	300	42M3845	20.80
FN-400-50	400	42M3846	22.88
FN-500-50	500	83F9154	23.80

LIGHTWEIGHT BASE MOUNT PORTABLE TYPE

Mfg. Part No.	Amp	Stock No.	Price Each
TM-1-50	1	67H6015	20.08
TM-5-50	5	67H6016	20.80
TM-10-50	10	72C5232	20.80
TM-15-50	15	42M3849	20.80
TM-20-50	20	66H8067	20.80
TM-25-50	25	90B4652	22.88
TM-30-50	30	04M7566	20.80
TM-40-50	40	42M3852	20.80
TM-60-50	60	42M3854	20.80
TM-80-50	80	42M3855	20.80
TM-85-50	85	42M3857	20.80
TM-125-50	125	42M3848	20.80
TM-170-50	170	42M3850	29.12
TM-200-50	200	04M7560	29.12
TM-250-50	250	13C2688	29.12
TM-300-50	300	04M7562	29.12
TM-400-50	400	42M3853	29.12
TM-600-50	600	04M6932	29.12
TM-800-50	800	42M3856	44.72
TM-1000-50	1000	91B7456	44.72
TM-1200-50	1200	42M3847	44.72

(80397)

EXTERNAL PORTABLE AND SWITCHBOARD SHUNTS



Switchboard Shunts



Portable Shunts

Use with analog or digital DC ammeter panel or switchboard meters requiring external shunts. Available in 50mV or 100mV drop. Accuracy: ±1%. 5' leads included.

50mV SWITCHBOARD SHUNTS

Mfg. Part No.	Amps	Stock No.	Price Each
06504	200	55F2572	53.54
06506	300	55F2573	53.54
06508	500	98F6076	74.37

50mV PORTABLE SHUNTS

Mfg. Part No.	Amps	Stock No.	Price Each
06700	1	12C2429	50.19
06703	5	12C2431	50.19
06704	10	12C2432	50.19
06705	15	12C2435	50.19
06707	25	12C2437	50.19
06709	50	12C2438	50.19
06711	75	55F267	50.19
06713	100	55F2569	50.19
06715	200	55F2570	50.19

100mV PORTABLE SHUNTS

Mfg. Part No.	Amps	Stock No.	Price Each
06716	10	90B8694	54.27

(3466)

New products added weekly

See the newest products, technologies and suppliers on our website.

(148886)

GIMA® SERIES 3-PHASE METERS

Simpson's GIMA® series replaces ammeters, voltmeters, switches, power factor and kW indicators, and kWh meters. Provides a single source of instrumentation for all measurement and metering requirements. Offers accurate, high-speed, continuous measurement, regardless of harmonics and waveform interruptions. "Auto-Commissioning" ensures that a reverse current transformer connection will not cause reading errors. Per phase kW and power factor allow cross-phase connection errors to be quickly and easily detected. Full 4-digit resolution of single-phase values and 5-digit resolution of 3-phase values. Offers maximum visibility with a custom backlit LCD display. The display is fully visible under most conditions and from all angles. Clear display legends ensure simple reading with no multipliers required. Power: 115VAC. Input current: 5A. Also available with 230VAC power; go online or call. CE compliant.



MEASUREMENT CAPABILITIES

Parameter	Type G100	Type G200	Type G300	Type G400
Phase Amps	Yes	Yes	Yes	Yes
Phase Volts	Yes	Yes	Yes	Yes
Line Volts	Yes	Yes	Yes	Yes
Per Phase PF	Yes	Yes	Yes	Yes
Per Phase kW	Yes	Yes	Yes	Yes
Per Phase kvar	No	No	Yes	Yes
Per Phase kva	No	No	No	Yes
3-Phase PF	Yes	Yes	Yes	Yes
3-Phase kW	Yes	Yes	Yes	Yes
3-Phase kvar	No	No	Yes	Yes
3-Phase kva	No	No	No	Yes
Frequency	Yes	Yes	Yes	Yes
kWh	No	Yes	Yes	Yes
Capacitive kvarh	No	No	Yes	Yes
Inductive kvarh	No	No	Yes	Yes
Total kvarh	No	No	Yes	Yes
Import kvarh	No	No	No	Yes
Current Demand	Yes	Yes	Yes	Yes
Voltage Demand	Yes	Yes	Yes	Yes
kW Demand	No	No	Yes	Yes
Peak Amps	No	No	No	Yes
Peak Phase Volts	No	No	No	Yes
Peak Current Demand	Yes	Yes	Yes	Yes
Peak Voltage Demand	Yes	Yes	Yes	Yes
Neutral Current	No	No	No	Yes

GIMA® SERIES 3 PHASE METERS

Mfg. Part No.	Input	Stock No.	Price Each
G100-1-1-1-0	120/208V	25C4129	468.87
G100-1-3-1-0	277/480V	25C4130	468.87
G200-1-1-1-0	120/208V	20C3982	522.97
G200-1-2-1-0	120/240V	20C3984	522.97
G200-1-3-1-0	277/480V	20C3986	522.97
G200-1-4-1-0	63/110V	20C3987	522.97
G300-1-1-1-0	120/208V	25C4131	577.08
G300-1-3-1-0	277/480V	25C4132	577.08
G400-1-1-1-0	120/208V	20C3978	654.76
G400-1-3-1-0	277/480V	20C3981	654.76

(61276)

GIMA® ACCESSORIES



370xx



3-PHASE CURRENT TRANSFORMERS

Can be used to monitor AC current when the current level is too high for the meter.

Mfg. Part No.	Current Ratio	Stock No.	Price Each
37026	50:5	20C3988	95.85
37027	100:5	25C2456	89.75
37028	150:5	25C4197	89.75
37029	200:5	20C3991	89.75
37030	300:5	27C0306	89.75

(72388)

POWER MONITORS • OPERATOR INTERFACES (HMI)

POWER LOGIC POWER METER 800 INPUT/OUTPUT MODULE



Features:

- Plug and play design in a compact (96 x 96mm) unit
- Link several analog and digital I/O inputs to a single PM820
- View 3 phases, plus neutral, for current or voltage at the same time
- Modular design allows for easy upgrade path
- Samples continuously at 128 times per cycle; no blind spots in data collection

Specifications:

- Digital input voltage range: 20-150VAC/DC
- Digital output voltage range: 0-240VAC, 0-30VDC
- Analog input voltage/current range: 0-5VDC or 4-20mA user selectable
- 80kb onboard logging



Mfg. Part No.	Description	Stock No.	Price Each
PM820	Power Meter with integrated display, THD, alarming	89H5544	2650.23

(90756)

MODEL PR300 POWER AND ENERGY METERS



- Save on cost, wiring and space
- Demand measurement
- Convert the phase and wire system of an AC power system and an input voltage circuit to a universal format
- Compatible with ANSI 4-inch round for size and DIN 96-square instrument size
- Standard equipped with an RS-485 communication function and capable of Ethernet communication



Panel-mount power and energy meters with large, three-row displays integrate all the measuring functions required for power management in locations such as factories and buildings into a single unit. With the objective of working toward the preservation of the global environment by saving energy and performing equipment maintenance, the PR300 series is designed to display and output the energy of various types of electrical equipment. Equipped with a transducer function for power (active, regenerative, reactive and apparent), voltage current, frequency and power factor (4 to 20mA DC). Enable the measurement of the maximum and minimum values of current as well as the use of the external digital input to measure energy at arbitrary times. Capable of outputting pulses proportional to energy (one measurement item from active, regenerative, reactive and apparent energy). Power line indications A, B and C provided for overseas use, in addition to R, S and T.

UNIVERSAL VOLTAGE INPUT (150V, 300V, 600V) / 1A AC

Mfg. Part No.	Phase and Wire System	Output Function	Stock No.	Price Each
PR300-3-1-0-0-0-6-A-0	Universal 3-Phase, 3-Wire	...	59M6604	595.00
PR300-3-1-1-0-0-6-A-0	Universal 3-Phase, 3-Wire	1 Analog	59M6605	625.00
PR300-3-1-2-0-0-6-A-0	Universal 3-Phase, 3-Wire	1 Pulse	59M6606	635.00
PR300-3-1-3-3-3-6-A-0	Universal 3-Phase, 3-Wire	1 Analog, 1 Pulse	59M6607	895.00
PR300-4-1-0-0-0-6-A-0	Universal 3-Phase, 4-Wire	...	59M6612	595.00
PR300-4-1-1-0-0-6-A-0	Universal 3-Phase, 4-Wire	1 Analog	59M6613	625.00
PR300-4-1-2-0-0-6-A-0	Universal 3-Phase, 4-Wire	1 Pulse	59M6614	635.00
PR300-4-1-3-3-3-6-A-0*	Universal 3-Phase, 4-Wire	1 Analog, 1 Pulse	59M6615	985.00
PR300-5-1-0-0-0-6-A-0	3-Phase, 4-Wire	...	59M6620	595.00
PR300-5-1-1-0-0-6-A-0	3-Phase, 4-Wire	1 Analog	59M6621	625.00
PR300-5-1-2-0-0-6-A-0	3-Phase, 4-Wire	1 Pulse	59M6622	635.00
PR300-5-1-3-3-3-6-A-0*	3-Phase, 4-Wire	1 Analog, 1 Pulse	59M6623	985.00

UNIVERSAL VOLTAGE INPUT (150V, 300V, 600V) / 5A AC

PR300-3-2-0-0-0-6-A-0/S01	Universal 3-Phase, 3-Wire	...	59M6608	682.00
PR300-3-2-1-0-0-6-A-0	Universal 3-Phase, 3-Wire	1 Analog	59M6609	625.00
PR300-3-2-2-0-0-6-A-0	Universal 3-Phase, 3-Wire	1 Pulse	59M6610	635.00
PR300-3-2-3-3-3-6-A-0*	Universal 3-Phase, 3-Wire	1 Analog, 1 Pulse	59M6611	895.00
PR300-4-2-0-0-0-6-A-0/S01	Universal 3-Phase, 4-Wire	...	59M6616	706.00
PR300-4-2-1-0-0-6-A-0	Universal 3-Phase, 4-Wire	1 Analog	59M6617	715.00
PR300-4-2-2-0-0-6-A-0	Universal 3-Phase, 4-Wire	1 Pulse	59M6618	725.00
PR300-4-2-3-3-3-6-A-0*	Universal 3-Phase, 4-Wire	1 Analog, 1 Pulse	59M6619	985.00
PR300-5-2-0-0-0-6-A-0	3-Phase, 4-Wire	...	59M6624	706.00
PR300-5-2-1-0-0-6-A-0	3-Phase, 4-Wire	1 Analog	59M6625	625.00
PR300-5-2-2-0-0-6-A-0	3-Phase, 4-Wire	1 Pulse	59M6626	635.00
PR300-5-2-3-3-3-6-A-0	3-Phase, 4-Wire	1 Analog, 1 Pulse	59M6627	985.00

* RS-485 communication, Ethernet communication. Demand measurement (1 demand alarm output). (101630)

HMI OPERATOR INTERFACES



- True analog touchscreen
- Retentive internal data storage
- Real time trending
- Trend stored data
- Alarming and alarm storage

Real time operating system. 32-bit RISC micro-controller/206.4MHz. Positioned between ELC graphics panels and the ePro series of operator interfaces, HMI is the work horse of the industry. All units feature a touchscreen and function keys to suit all environments and applications. Range in screen size and color to fit available space and application needs. All units offer RS-232, RS-485 and RS-422 communications. Additional features include event storage (history), add I/O, macro programming, multi-language, recipe storage, auto-scale application from 10 to 4", on-line simulation, off-line simulation, 10-level password protection, 3V lithium backup battery CR2032 x 1 (5-year battery life) and 85dB buzzer. HMI programming software supports all of the features of HMI and can run on Windows 2000 and XP. The programming software is available as an evaluation copy as a free download on the website.

SPECIFICATIONS

Model	HMI04BU	HMI06BE	HMI06GE	HMI08CE	HMI10CE
NOR Flash ROM	2MB System: 1MB User: 1MB	4MB System: 1MB User: 3MB	8MB System: 1MB User: 7MB	8MB System: 1MB User: 7MB	8MB System: 1MB User: 7MB
SDRAM	4MB	16MB	32MB	32MB	32MB
Backup Memory	128KB	512KB	512KB	512KB	512KB
Ext. Memory (SM Card)	...	✓	✓	✓	✓
Ext. Memory (USB Disk)	✓	...	...	...	✓
Extension Interface	...	✓	✓	✓	✓
USB for Data Transfer/Printer (USB Host)	✓	...	...	...	✓
Function Key	User Defined Key x 4		User Defined Key x 7		User Defined Key x 8
Perpetual Calendar (RTC)	Built-in				
Safety Approval (Waterproof for Front Panel)	IP45 / NEMA 4X / CE, UL				
Dimensions (H x W x D)	4.13 x 5.54 x 1.76"	5.67 x 7.25 x 1.85"	7.01 x 9.57 x 2.06"	8.74 x 11.70 x 2.01"	8.74 x 11.70 x 2.01"

Mfg. Part No.	Description	Stock No.	Price Each
HMI04BU	4" Blue Mode Touchscreen, 3.8" STN LCD (16 Blue)	40M7610	344.66
HMI06BE	6" Blue Mode with Expansion Slot, 5.7" STN LCD (16 Blue)	40M7611	472.53
HMI06GE	6" Gray Scale Mode with Expansion Slot, 5.7" FSTN LCD (16 Grays)	40M7613	498.51
HMI06CE	6" Color Mode with Expansion Slot, 5.7" STN LCD (256 Colors)	40M7612	729.27
HMI08CE	8" Color Mode with Expansion Slot, 8" TFT LCD (65,536 Colors)	40M7614	1344.66
HMI10CE	10" Color Mode with Expansion Slot, 10.4" TFT LCD (65,536 Colors)	40M7615	1931.07

ACCESSORY

Mfg. Part No.	Description	Stock No.	Price Each
HMI50FT	HMI Programming Software	46M5638	192.70

(82294)

HG2G 5.7" OPERATOR INTERFACES

Just Added



Monochrome LCD 500cd/m2
256-color LCD 350cd/m2

This 5.7-inch monochrome LCD screen is the BRIGHTEST in the market with an impressive 500cd/m2 and 15 shades of gray. That's more vivid than most TVs! The 256-color LCD screen is no slouch either, boasting 350cd/m2 illumination. In addition, this analog resistive touchscreen provides a flexible layout. Just place objects or images anywhere on the screen, making it easy to design a custom screen for your specific application or project.

➤ CONTINUED ➤

7



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(148881)

OPERATOR INTERFACES (HMI)

HG2G 5.7" OPERATOR INTERFACES (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	3-5
HG2G-SB22VF-W	5.7" Monochrome LCD, Light Gray Body, RS232C/RS485/RS422	10R5644	666.00	
HG2G-SB22VF-B	5.7" Monochrome LCD, Black Body, RS232C/RS485/RS422	10R5642	666.00	
HG2G-SB22VF-S	5.7" Monochrome LCD, Silver Body, RS232C/RS485/RS422	10R5643	666.00	
HG2G-SB22TF-W	5.7" Monochrome LCD, Light Gray Body, Ethernet, RS232C/RS485/RS422	10R5641	814.00	
HG2G-SB22TF-B	5.7" Monochrome LCD, Black Body, Ethernet, RS232C/RS485/RS422	10R5639	814.00	
HG2G-SB22TF-S	5.7" Monochrome LCD, Silver Body, Ethernet, RS232C/RS485/RS422	10R5640	814.00	
HG2G-SS22VF-W	5.7" 256 Color LCD, Light Gray Body, RS232C/RS485/RS422	56P2474	647.50	
HG2G-SS22VF-B	5.7" 256 Color LCD, Black Body, RS232C/RS485/RS422	10R5648	1073.00	
HG2G-SS22VF-S	5.7" 256 Color LCD, Silver Body, RS232C/RS485/RS422	10R5649	925.00	
HG2G-SS22TF-W	5.7" 256 Color LCD, Light Gray Body, Ethernet, RS232C/RS485/RS422	10R5647	1073.00	
HG2G-SS22TF-B	5.7" 256 Color LCD, Black Body, Ethernet, RS232C/RS485/RS422	10R5645	1073.00	
HG2G-SS22TF-S	5.7" 256 Color LCD, Silver Body, Ethernet, RS232C/RS485/RS422	10R5646	1073.00	

(148698)

OPERATOR INTERFACES



5.7", 5.7" with CC click



12.1", 10.4"



4.6"

Just Added

- Models available: HG1F: 4.6" STN LCD screen, 1MB of memory; HG2F: 5.7" STN LCD screen, 2MB of memory; HG3F: 10.4" TFT LCD screen, 8MB of memory; HG4F: 12.1" TFT LCD screen 8MB of memory
- Communication drivers supported (included with software): Allen Bradley Ethernet/IP driver (new); Modbus TCP/IP (new); IDEC, Allen Bradley DF1/DH485, Omron, Mitsubishi, Siemens, Modbus-RTU, Keyence, GE Fanuc, Aromat, Automation Direct and many more
- Supports RS232, RS485, or RS422 communication
- Supports compact flash card (5.7" and above
- Ethernet port: HG3F (10.4" screen) and HG4F (12.1" screen) only
- Real time clock
- Recipe, alarm and trend logging capability
- O/I link support (multi-drop up to 15 O/Is)
- 1:N PLC communication
- Pass thru programming
- Printer / barcode reader support
- Programmable with WindO/I-NV2 Software (included over 5000 built-in symbol factory images)
- Class 1 Div.2 (for Hazardous Locations)
- HG1F/HG2F: NEMA 13, IP65
- HG3F/4F: IP66, NEMA 4, 4X, 13

IDEC touchscreens create an efficient interaction between the user and the equipment. All touchscreens come with high pixel resolution and super bright LCD display for sharp quality images. The 10.4" and 12.1" TFT LCD color screens have Web Server function and an Ethernet port to allow for remote programming, monitor, and control over the Ethernet network. User can monitor application right from the office. The 5.7" STN LCD screens are available in monochrome or color and also come with IDEC's patented CC Click technology, providing tactile feedback. The entire touchscreen family works with all of IDEC's PLCs, and drivers are available to make them compatible with PLCs from other manufacturers. **➤ CONTINUED ➤**

OPERATOR INTERFACES (CONT.)

OPERATOR INTERFACES				
Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	3-5
HG4F-JT22TFW	12.1" TFT LCD Touchscreen, 256 Color, Light Gray Bezel	08J5069	2584.82	2497.50
HG4F-JT22TFW-DH485-500	12.1" TFT LCD Touchscreen with DF1/DH485 converter/cable package for SLC500 (w/RJ45 connector), Light Gray Bezel	81H5061	2740.22	2647.65
HG3F-F22TFW	10.4" TFT LCD Touchscreen, 256 Color, Light Gray Bezel	08J5067	2066.82	1997.00
● HG3F-F22TFB	10.4" TFT LCD Touchscreen, 256 Color, Black Bezel	82K8314	2164.58	2108.72
HG3F-F22TFW-DH485-500	10.4" TFT LCD Touchscreen with DF1/DH485 converter/cable package for SLC500 (w/RJ45 connector), Light Gray Bezel	08J5068	2222.22	2147.15
HG2F-SS22VCF	5.7" STN LCD Touchscreen, 256 Color, Light Gray Bezel	82K8311	1079.58	1051.72
HG2F-SB22VCF	5.7" STN LCD Touchscreen, Monochrome, Light Gray Bezel	92C3143	720.02	695.70
HG2F-SS22VCF-DH485-500	5.7" STN LCD Touchscreen with DF1/DH485 converter/cable package for SLC500 (w/RJ45 connector), 256 Color, Light Gray Bezel	82K8312	1242.33	1210.27
HG2F-SB22VCF-DH485-500	5.7" STN LCD Touchscreen with DF1/DH485 converter/cable package for SLC500 (w/RJ45 connector), Monochrome, Light Gray Bezel	08J5063	875.42	845.85
HG2F-SS52VCF	5.7" STN LCD Touchscreen w/ CC, Click Tactile Touchbutton, 256 Color, Light gray bezel	82K8313	1133.83	1104.57
HG2F-SB52VCF	5.7" STN LCD Touchscreen w/ CC Click Tactile Touchbutton, Monochrome, Light Gray Bezel	08J5064	771.82	745.75
● HG1F-SB22BF-B4.6"	4.6" STN Monochrome Touchscreen, Black Bezel, RS232, 500cd/m ²	46M3454	359.13	346.91
● HG1F-SB22BF-B	4.6" STN Monochrome LCD Touchscreen, Black Bezel, RS232	34M2286	361.57	349.35
● HG1F-SB22BF-W4.6"	4.6" STN Monochrome Touchscreen, White Bezel, RS232, 500cd/m ²	46M3456	359.13	346.91
● HG1F-SB22BF-W	4.6" STN Monochrome Touchscreen, Light Gray Bezel, RS232	29M9603	361.57	349.35
● HG1F-SB22YF-B4.6"	4.6" STN Monochrome Touchscreen, Black Bezel, RS485/422, 500cd/m ²	46M3457	359.13	346.91
● HG1F-SB22YF-B	4.6" STN Monochrome LCD Touchscreen, Black Bezel, RS485/422	46M3104	361.57	349.35
● HG1F-SB22YF-W4.6"	4.6" STN Monochrome Touchscreen, White Bezel, RS485/422, 500cd/m ²	46M3459	359.13	346.91
● HG1F-SB22YF-W	4.6" STN Monochrome LCD Touchscreen, Light Gray Bezel, RS485/422	46M3218	361.57	349.35

SOFTWARE

● HG9Y-ZSS2W	WindO/I-NV2 Configuration software for HG4F/3F/2F/1F Series O/Is	29H2810	181.30	175.18
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CABLES

HG9Z-XCM1A	Programming cable for all Touchscreen	15C7023	26.95	26.08
● FC4A-KC2CA	Cable between Microsmart Series and HG2F/3F/4F, RS232 Comm. Type using Microsmart built-in port or FC4A-PC1/HPC1(comm. Adaptor), 5ft.	08J5058	34.83	33.08
● HG9Z-3C115A	Cable between Microsmart Series and HG2F/3F/4F, RS485 Comm. Type using Microsmarts' FC4A-PC2/HPC2 (comm. adaptor), 5ft.	92C3150	37.63	35.53
HG9Z-2C145A	Cable between Microsmart Series and HG2F/3F/4F, RS485 Comm. Type using Microsmarts' FC4A-PC3/HPC3 (comm. adaptor), 5ft	92C3147	37.63	35.53
● HG9Z-2C135A	Cable between AB-Micrologix series and HG2F/3F/4F - 5 ft	08J5070	26.78	25.90

ACCESSORIES

● HG9Z-2B1	Replacement backlight for HG2F	92C3146	86.10	83.48
● HG9Z-2D2	Protective sheet for HG2F (5 pack)	92C3148	40.18	38.96

(72440)

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(148857)

OPERATOR INTERFACES (HMI) • CONTROLLERS – PROCESS

NT11 SERIES PROGRAMMABLE TERMINALS NT2S SERIES OPERATOR INTERFACES

Just Added



NT11



NT2S

• Supply voltage: 24 VDC • Power consumption: 10 W max.
 Dot matrix of STN liquid crystal display panel. Number of dots: 160 x 64 Effective display area: 100 x 40 mm Life expectancy: 50,000 hours minimum View angle (left/right direction): ±20°. Backlight LED, Life expectancy: 50,000 hours minimum. Automatic turn-off: can be set to turn off in 10 minutes or 1 hour, or to remain on. Normal characters (8 x 16 dots): Alphanumerics and symbols, marks (8 x 16 dots): User-defined, 64 max.

NT11 SERIES

Mfg. Part No.	Description	Stock No.	Price Each
NT11-SF121-EV1	Ten-key type (frame color-beige)	10R5239	588.27
NT11-SF121B-EV1	Ten-key type (frame color-black)	10R5240	588.27

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
NT-ZJCAT1-EV4	Support Software, CD-ROM	10R5238	518.75

NT2S SERIES OPERATOR INTERFACES

NT2S-SF121B-EV2	6 function key, 2x16 character LCD, RTC, external 24 VDC	26K5835	511.78
NT2S-SF122B-EV2	6 function key, 2x16 character LCD, Programmable, 5 VDC	86H9377	420.24
NT2S-SF123B-EV2	6 function key, 2x16 character LCD, PLC ASCII-based program, 5 VDC	10R5245	296.37
NT2S-SF125B-E	8 function key+numpad, 2x16 character LCD, Programmable, RTC, external 24 VDC	10R5246	594.23
NT2S-SF126B-E	8 function key+numpad, 2x16 character LCD, Programmable, 5 VDC	10R5247	519.76
NT2S-SF127B-E	8 function key+numpad, 2x16 character LCD, PLC ASCII-based program, 5 VDC	10R5248	445.30

ACCESSORIES

NT2S-CN212-V1	2 m Cable SF121 model - 9-Pin to PLC peripheral (CPM1A, CPM2A)	10R5241	104.25
NT2S-CN215V1	5 m Cable SF121 model - 9-Pin to PLC peripheral (CPM1A, CPM2A)	10R5242	93.08
● NT2S-CN222-V1	2 m Cable SF122/SF123 model - 9-Pin to PLC peripheral (CPM1A, CPM2A)	20C3799	100.89
NT2S-CN223-V2	2 m Cable SF121 model - 9-Pin to PLC mini- peripheral (CPM2C, CQM1H, CJ1, CS1)	40M9451	159.22
NT2S-CN225-V2	5 m Cable SF122/SF123 model - 9-Pin PLC peripheral (CPM1A, CPM2A)	10R5244	67.02
NT2S-CN224-V1	5 m Cable SF122/SF123 model - 9-Pin PLC mini-peripheral (CPM2C, CQM1H, CJ1, CS1)	10R5243	89.36
● C200H-CN229-EU	2 m programming cable -PC to NT2S-SF121/122 models	48F4645	211.10

(148680)

GT SERIES TOUCHSCREENS



Panasonic Electric Works Corporation of America



- Improved visibility and operability, quick response
- 3 color LED backlights, check your HMI status at-a-glance
- High-flexibility screen design
- 3 to 5.7 inch screens

The response speed of programmable displays largely depends on the communication speed of the controller, such as a PLC, as well as that of the displays themselves. GT series displays support high-speed communications of up to 115.2 kbps.

▶ CONTINUED ▶

GT SERIES TOUCHSCREENS (CONT.)

Mfg. Part No.	LCD Display	Power Supply	Communication Port	Backlight	Stock No.	Price Each
● AIGT0030B1	3" STN monochrome	5 VDC	RS442 (RS485)	Green,Orange,Red	73H0867	216.53
● AIGT0030B	3" STN monochrome	24 VDC	RS232C	Green,Orange,Red	73K7129	250.72
● AIGT2032B	4" STN monochrome	24 VDC	RS442 (RS485)	Green,Orange,Red	73K7134	451.70
● AIG05M0Q02D	3.5" STN monochrome	24 VDC	RS232C	White,Red,Pink	08N3193	305.62
● AIG05G0Q02D	3.5" STN monochrome	24 VDC	RS232C	Green,Orange,Red	08N3192	305.62
● AIG05S0Q02D	3.5" STN 4096 colors	24 VDC	RS442 (RS485)	4096 Colors	08N3194	445.48
● AIGT2230B	4.7" STN 256 colors	24 VDC	RS442 (RS485)	256 Colors	73K7136	542.87
● AIG32M0Q02D	5.7" STN monochrome	24 VDC	RS232C	Blue,White	08N3195	435.12
● AIG32T0Q02D	5.5" TFT 4096 colors	24 VDC	RS232C	4096 colors	08N3196	777.00
● AIG32T012D	5.5" TFT 4096 colors	24 VDC	RS232C	4096 colors	08N3197	973.84

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● AIGT8001V2	Programming Software; For Use With:GT Series Touchscreens	96H1390	168.87
● USB2.0-AB06	USB Programming Cable; Cable Length:6m; For Use With:GT Series Programmable Displays	97M9855	22.55

(115550)

ITH SERIES HUMIDITY + TEMPERATURE MONITORS AND CONTROLLERS

NEW TECHNOLOGY



- Dual Loop Control Humidity + Temperature
- High Accuracy ±0.5°C and ±2% RH
- 4 Popular DIN Sizes
- Ethernet and Serial Communications (optional)
- Full Autotune PID Control
- Programmable Ramp and Soak for Humidity and/or Temperature
- RH/Temperature Probe included

The NEWPORT® ITH Series instruments monitor and control both temperature and relative humidity. Available in four true DIN Sizes: the ultra compact 1/2 DIN (the world's smallest dual loop Humidity + Temperature controller); the popular midsize 1/8 DIN square bezel with dual display; the 1/8 DIN vertical, and the 1/8 DIN horizontal with the big bright 21mm digits. There are two Control or Alarm Output options: Form "C" 3A Relays, SSR, DC Pulse or Analog output.

Mfg. Part No.	Description	Stock No.	Price Each
ITH-18DH00-2	1/8 DIN Dual Display Horizontal Temp and RH Monitor, 2" probe	05R6294	390.00
ITH-18DH33-5	1/8 DIN Dual Display Horizontal Temp & RH Controller, 2 SPDT Relays, 5" probe	05R6295	490.00
ITH-116D33-2-C24	1/16 DIN Dual Display Temp & RH Controller, 2 SPDT Relays, Serial RS 232 and RS485 Output 2" probe	05R6291	550.00
ITH-116D33-5-C4E1	1/16 DIN Dual Display Temp & RH Controller, 2 SPDT Relays, Ethernet and serial output, 5" probe	05R6292	605.00
ITH-132-33-5-C24	1/32 DIN Temp & RH Monitor, 2SPDT Relays and Serial Output, 5" probe	05R6293	490.00

ACCESSORIES

Mfg. Part No	Description	Stock No.	Price Each
ITHP-2	Replacement Industrial Probe 2" (51mm), cable 3ft. (0.9m) with stripped wire ends	05R6296	115.00
ITHP-5	Replacement Industrial Probe 5" (137mm), cable 10ft. (3m) with stripped wire ends	05R6297	125.00

(147112)

CONTROLLERS – PROCESS • CONTROLLERS – TEMPERATURE

IDR SERIES TEMPERATURE, PROCESS AND STRAIN CONTROLLERS AND SIGNAL CONDITIONERS

Just Added



- Universal Inputs: Thermocouple, RTD, Process Voltage/Current, Strain
- Built-in Excitation, Standard
- Embedded Ethernet
- 2 Control or Alarm Outputs (Optional)
- dc Pulse
- Mechanical Relays
- Solid State Relays
- Analog Voltage and Current



NEWPORT introduces a new family of extremely accurate instruments for DIN rail mounting. The compact IDR series signal conditioners and PID controllers are available with Newport's award-winning "Embedded Internet" technology. With the Ethernet option, the instruments connect directly to a LAN and can even serve Web pages over the Internet. The devices are easily configured with a handheld programmer IDR-P, or from a computer with an Ethernet, RS-232, or RS-485 connection. The universal signal input covers ten (10) Thermocouples, 100 and 1000 Ohm RTD's with 2, 3, or 4 wire connections, Process (DC) Voltage, Current, and Strain Gauge inputs. Optional outputs include Form C SPDT Relays, SSR's, DC pulse, Programmable Isolated or non-Isolated Analog Voltage and Current.

Mfg. Part No.	Description	Stock No.	Price Each
IDR	Temperature/Process (no Outputs) DIN Rail Case	05R6413	240.00
IDR33	Temperature/Process controller, 2 Relay outputs	05R6415	310.00
IDR53	Temperature/Process controller, Analog output and one Relay outputs	05R6417	310.00
IDR33-C4EI	Temperature/Process controller, Analog, Relay and Serial and Ethernet Output	05R6416	425.00
IDRP	Remote Programming Display	05R6414	95.00

(147116)

1/2 DIN iSERIES PID CONTROLLERS

NEW TECHNOLOGY



Feature a color display that can be programmed to change between green, amber and red at any set- or alarm point. Offer a universal input for 10 thermocouples (K, J, T, E, R, S, B, C, N & J DIN), plus 100-, 500- and 1000-ohm RTD's with 2-, 3- and 4-wire connections for the most accurate RTD measurements. Features totally scalable process voltage 0-100mV, 0-1V, 0-10V ranges, and process current 0-20mA. Feature autotune PID control with a choice of dual-form C SPDT relays, SSR's, DC pulse and analog voltage or current. The universal power supply runs on 90-240VAC/DC. Low voltage power input of 12-36VDC and 24VAC is optional. Features built-in 24VDC@25mA excitation, standard, offering optional RS-232 and RS-485 serial communications.

Mfg. Part No.	Description	Stock No.	Price Each
I3200	Temperature/Process (Monitor Only) 1/2 DIN	25C3530	190.50
I3233	PID Controller, 2 SPDT Relays	96B0165	247.65
I3244	PID Controller, 2 DC Pulse Outputs	96B0166	247.65
I3253	PID Controller, 1 Analog Out, 1 SPDT Relay	96B0167	247.65
I3253-C24	PID Controller, RS232 and RS485 Serial Comm.	96B0168	313.65
I3200-DC	Temperature/Process Monitor-DC Powered	97C9603	175.00
I3233-DC	PID Controller, 2 SPDT Relays-DC Powered	97H6700	220.00

(51977)

WIDR SERIES WIRELESS DIN RAIL MONITOR AND CONTROLLERS

NEW TECHNOLOGY



- Wireless Inputs: Thermocouple and RTD
- Easily Configure through your Web Browser
- Ethernet and Embedded Web Server (standard)
- Two Outputs for Alarm or Control: Relays, SSR's, dc Pulse, Analog Voltage and Current
- Free Software
- UWTC "Universal Wireless Thermocouple" Types J, K, T, E, R, S, B, N, and C.
- UWRTD "Universal Wireless RTD"

The wiSeries DIN Rail Monitor & Controller can monitor up to eight (8) wireless sensors. The compact instrument connects directly to an Ethernet network and the Internet and features NEWPORT's award-winning embedded Web Server. It is easily configured and monitored with a Web browser over the Ethernet network or the Internet. Alternatively, the WIDR monitor-controller can instead be connected to the USB port of a single computer with a "USB Ethernet Adapter" that are inexpensive and widely available. The new NEWPORT® wiSeries DIN Rail wireless monitoring and control device is compatible with a large and growing number of NEWPORT wireless sensors: A complete wireless system requires at least one Receiver (wiDR**-U) and one End Device (UWTC-* or UWRTD-*)

Mfg. Part No.	Description	Stock No.	Price Each
WIDR33-U	Wireless Controller (Receiver) with 2 Relays: Form C SPDT 3 A @ 120 Vac, 3A @ 240 Vac	05R8694	395.00
WIDR44-U	Wireless Controller (Receiver) with Two Pulsed 10 Vdc @ 20 mA (for use with external SSR)	05R8695	395.00
WIDR53-U	Wireless Controller (Receiver) with Analog Output 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and Form "C" Relay	05R8696	395.00
UWTC-1	End Device- Wireless thermocouple connector (standard distance)	05R8692	125.00
UWTC-2	End Device- Wireless thermocouple connector (extended distance)	05R8693	135.00
UWRTD-1	End Device- Wireless RTD connector (standard distance)	05R8690	125.00
UWRTD-2	End Device- Wireless RTD connector (extended distance)	05R8691	135.00

(147125)

1/16 DIN iSERIES PID CONTROLLERS

NEW TECHNOLOGY



The iSeries autotune PID controllers feature universal inputs for thermocouples (K, J, T, E, R, S, B, C, N & J DIN) RTDs: 100-, 500-, and 1000-ohm with 2-, 3-, and 4-wire connections, plus totally scalable process voltage 0-100mV, 0-1V, 0-10V ranges. Process current: 0-20mA. Features the innovative iSeries display that can be programmed to change between green, amber and red at any set or alarm point. Options include a 2nd display for set point, RS-232 & RS-485, Ethernet, and low-voltage power supply.

Mfg. Part No.	Description	Stock No.	Price Each
I1622	Process, Temperature PID Controller, 2 SSR's (0.5A) outputs	96B0158	274.50
I1633	Process, Temperature PID Controller, 2 SPDT (3A) outputs	96B0159	274.50
IS1633	Process, Strain PID Controller, 2 SPDT (3A)	05R0234	275.00
I1653-C24	Process, Temperature PID Controller, Analog output, Relay, RS232 & RS485 Serial Comm. Outputs	96B0162	347.70
I1653	Process, Temperature PID Controller, Analog, Relay Outputs	65H4320	225.00
I16D33	Process, Temperature PID Controller, Dual Display, 2 SPDT outputs	96B0157	245.00
IS16D33	Process, Strain PID Controller, Dual Display, 2 SPDT (3A) outputs	05R0233	295.00
I16D33-AL	Dual Display, 2 SPDT Limit Alarm Version (Alarm Menu, No PID Control)	92H7474	245.00
I16D33-SM	PID Controller, Dual Display, 2 SPDT outputs Simplified Menu Version (ON/OFF Control, No PID)	05R0235	245.00

(51575)

1/8 DIN SIZE METER/PID CONTROLLERS



The iSeries color display can be programmed to change between green, amber and red at any set or alarm point. Display features LEDs twice the size of typical 1/8 DIN meters for easier viewing. Contains a universal input for 10 thermocouples (K, J, T, E, R, S, B, C, N and J DIN), plus 100-, 500-, and 1000-ohm RTD's with 2-, 3-, and 4-wire connections for the most accurate RTD measurements. Totally scalable process voltage of 0-100mV, 0-1V, 0-10V ranges and process current of 0-20mA. Includes built-in 24VDC excitation, standard and optional RS-232 and RS-485 serial communications, and Ethernet output. Offers on/off or full autotune PID control with optional outputs: relays, SSR's, DC pulse and analog. The universal power supply runs on 90-240VAC/DC. Low-voltage 12-36VDC and 24VAC is optional.

▶ CONTINUED ▶

CONTROLLERS – TEMPERATURE

1/8 DIN SIZE METER/PID CONTROLLERS (CONT.)

STANDARD VERSION - 48H x 96W x 104.1mmL

Mfg. Part No.	Description	Stock No.	Price Each
			1-2
I800	Temperature/Process Monitor	96B0170	292.80
I833	PID Controller, 2 SPDT 3A Relays	96B0172	378.20
I853-C24	PID Controller, Analog Output, Relay, RS232 and RS485 Serial Communications	96B0175	451.40

ULTRA COMPACT VERSION - 48H x 96W x 54.84mmL

I8C00	Monitor 1/8 DIN Short Case	31C0999	353.40
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(51573)

1/8 DIN DUAL DISPLAY CONTROLLERS



NEW TECHNOLOGY



Horizontal

Vertical

The Newport iSeries 1/8 DIN dual display autotune PID controllers feature displays that can be programmed to change colors between red, amber and green at any set point or alarm point. The changes in color are quickly seen from a distance and equipment operators can intuitively react to changing conditions. The Newport iSeries controllers offer a wide assortment of signal inputs for process (DC) voltage and current, thermocouples, RTDs, and strain gage measurements. Outputs include SPDT relays for alarm or full PID control, isolated analog output, Ethernet and RS-232/422/485 serial communications and MODBUS.

Mfg. Part No.	Description	Stock No.	Price Each
			1-2
I8DH33	Horizontal 1/8 DIN Universal Temperature + Process with 2 Relays	97C9025	425.00
I8DV33	Vertical 1/8 DIN Universal Temperature + Process with 2 Relays	02E2625	425.00
I8DH33-C24	Horizontal 1/8 DIN Universal Temperature + Process with 2 Relays, RS232 + RS485 Serial Comm.	02E2624	500.00
I8DH33-AL	Horizontal 1/8 DIN Universal Temperature + Process with 2 Relays, Limit Alarm Version (Alarm Menu, No PID Control)	05R0278	340.00
I8DH33-SM	Horizontal 1/8 DIN Universal Temperature + Process with 2 Relays, Simplified Menu Version (ON/OFF Control, No PID)	05R0279	340.00

(73304)

W18 SERIES WIRELESS MONITOR, SCANNER AND CONTROLLERS

NEW TECHNOLOGY



- Wireless Inputs: Thermocouple and RTD
- Easily Configure through your Web Browser
- Ethernet and Embedded Web Server (standard)
- Two Outputs for Alarm or Control: Relays, SSR's, dc Pulse, Analog Voltage and Current
- Free Software
- UWTC "Universal Wireless Thermocouple" Types J, K, T, E, R, S, B, N, and C.
- UWRTD "Universal Wireless RTD".

The wiSeries 1/8 DIN Panel Meter & Controller can monitor up to eight (8) wireless sensors. The compact instrument connects directly to an Ethernet network and the Internet and features NEWPORT's award-winning embedded Web Server. It is easily configured and monitored with a Web browser over the Ethernet network or the Internet. Alternatively, the w18 meter-controller can instead be connected to the USB port of a single computer with a "USB Ethernet Adapter" that are inexpensive and widely available. The w18 meter-controller comes standard with a choice of either two Form C relays, or two SSR's (solid state relays) that can be used for control functions or alarms. The w18 meter can monitor alarm conditions for any or all of the wireless sensors. For example, the w18 meter can be set up to trip an alarm if any one of the sensors indicated it was above or below a pre-set alarm point. The new NEWPORT® wiSeries wireless monitoring and

▶ CONTINUED ▶

W18 SERIES WIRELESS MONITOR, SCANNER AND CONTROLLERS (CONT.)

control system features meters and scanners compatible with a large and growing number of NEWPORT wireless sensors: A complete wireless system requires at least one Receiver (wiDR**U) and one End Device (UWTC-* or UWRTD-*)

Mfg. Part No.	Description	Stock No.	Price Each
			Each
W1833-U	Wireless Controller (Receiver) with 2 Relays: Form C SPDT 3 A @ 120 Vac, 3A @ 240 Vac	05R8697	395.00
W1844-U	Wireless Controller (Receiver) with Two Pulsed 10 Vdc @ 20 mA (for use with external SSR)	05R8698	395.00
W1853-U	Wireless Controller (Receiver) with Analog Output 0 to 10 Vdc or 0-20 mA @ 500 ohm max. and Form "C" Relay	05R8699	395.00
UWTC-1	End Device- Wireless thermocouple connector (standard distance)	05R8692	125.00
UWTC-2	End Device- Wireless thermocouple connector (extended distance)	05R8693	135.00
UWRTD-1	End Device- Wireless RTD connector (standard distance)	05R8690	125.00
UWRTD-2	End Device- Wireless RTD connector (extended distance)	05R8691	135.00

(147124)

1/16 DIN SIZED ANALOG-SET TEMPERATURE CONTROLLERS

Just Added



- Proportional control (P) or ON/OFF control models
- Front panel offset adjustment on P controllers
- Choose contact or voltage outputs
- Type J or K thermocouples, platinum RTD and thermistor input models
- Panel mounting hardware included

Mfg. Part No.	Input Type	Output Type	Temperature Range	Stock No.	Price Each
					Each
E5C2-R20J-0200C/32392F-AC120	J	Relay	0°C - 200°C 32°F - 392°F	10R5229	112.14
E5C2-R20J-0400C/32752F-AC120	J	Relay	0°C - 400°C 32°F - 752°F	10R5230	112.14
E5C2-R20J-32/572F-AC120	J	Relay	32°F - 752°F	10R5231	112.14
E5C2-R20K-32/112F-AC120	K	Relay	32°F - 112°F	10R5232	112.14
E5C2-R40J-0200C/32392F-AC120	J	Relay	0°C - 200°C 32°F - 392°F	10R5233	112.14
E5C2-R40J-0400C/32752F-AC120	J	Relay	0°C - 400°C 32°F - 752°F	10R5234	112.14

(148695)

1/16 DIN TEMPERATURE CONTROLLER



RoHS Compliant Available



E5CS

- Automatic Adjustment and PID Control in a 48x48mm Package
- Control Accuracy to ±1% of Full Scale
- Selectable Temperature Ranges in °C or °F
- Easy-to-read 13.4mm-High LED Display
- Models for Thermocouple Types J/L and K Inputs and Platinum RTD Inputs
- PID and On/Off Control Modes
- Wide Power Supply Range: 100 to 240VAC, 50/60Hz
- Tamper-proof Setting, Faulty Sensor Detection and Controller Diagnostics

Versatile, low-cost controllers have °F/°C scales. Voltage output is rated 12VDC, 20mA with short-circuit protection. Relay output is rated 3A, 250VAC. Accepts J/L, K thermocouples, auto-tuning of P band. Accurate to ± 0.5% of full scale. Eight-function alarm output (SPST-NO relay, 1A, 250VAC). Rated IP50 (NEMA 4 with optional cover go online or call). E5CS: 1.89H x 1.89W x 4.17"D (48 x 48 x 106mm), SPDT relay output, 7VA power consumption. E5CSV: 1.89H x 1.89W x 3.07"D (48 x 48 x 78mm), SPST-NO relay output, 5VA power consumption. Panel mounting adapter is supplied. UL recognized, CSA certified.

Mfg. Part No.	Output	Input Type	Stock No.	Price Each	
				1-2	3-4
E5CSVQ1TFAC100240	Voltage	Thermocouple / Platinum RTD	17M6596	335.55	296.89
E5CSVR1TFAC100240	Relay	Thermocouple / Platinum RTD	80K1834	247.38	218.88

(2446)

CONTROLLERS – TEMPERATURE

E5GN SERIES DIGITAL TEMPERATURE CONTROL



- 1/2 Size DIN Controller
- 100mm Deep for Minimized Panel Space
- Accepts Thermocouple, Platinum RTD, Non-contact Temperature Sensor, and Analog Temperature Inputs
- Auto-tuning and Self-tuning Available; Functions can be used Simultaneously
- Heating or Heating/Cooling Control
- Water-resistant Construction (NEMA 4X, Equivalent to IP66)
- 3-Year Warranty



1/2 DIN controller features selectable auto-tune or self-tune available, on/off or PID. Accepts various temperature and analog inputs. NEMA4X front panel. UL listed, CSA certified, CE compliant.

STANDARD TEMPERATURE CONTROLLERS

Mfg. Part No.	Output	Power Supply Voltage	Stock No.	Price Each	
				1-9	10-24
● E5GN-R1TC-AC100240	Relay	100-240VAC	93B8747	215.69	205.66
● E5GN-Q1TC AC100-240	Voltage	100-240VAC	08C3670	215.69	205.66
● E5GN-R1TC AC/DC24	Relay	24VDC	18M7334	292.56	278.95
● E5GN-Q1TC AC/DC24	Voltage	24VDC	12C1052	292.56	278.95

TEMPERATURE CONTROLLERS WITH COMMUNICATIONS

● E5GN-R03TC-FLK AC100-240	Relay	100-240VAC	12C1059	292.28	278.69
● E5GN-Q03TC-FLK AC/DC24	Voltage	24VDC	12C1048	292.28	278.69
● E5GN-Q03TC-FLK AC100-240	Voltage	100-240VAC	12C1049	292.28	278.69

(34471)

DIGITAL TEMPERATURE CONTROLLERS



Just Added



- Thermocouple input: ±0.3% of PV (previous models: ±0.5%)
- Pt input: ±0.2% of PV (previous models: ±0.5%)
- Analog input: ±0.2% FS (previous models: ±0.5%)
- New E5CN-U Models (Plug-in Models) with analog inputs and current outputs.

Mfg. Part No.	Input Type	Auxiliary Outputs	Control Output 1	Stock No.	Price Each
					1-9
E5CN-RMT-500 AC100240	Thermocouple or RTD	None	Relay	10R5227	185.48
E5CN-R2MTD-500 ACDC24	Thermocouple or RTD	2	Relay	10R5228	195.41
E5CN-Q2MTD-500 ACDC24	Thermocouple or RTD	2	Voltage/SSR	10R5226	195.41
● E5CN-Q2MT500-AC100240	Thermocouple or RTD	None	Voltage/SSR	88K1928	204.97
● E5CN-R2MT-500 AC100-240	Thermocouple or RTD	2	Relay	07J7174	278.02
● E5CN-QMT500-AC100240	Thermocouple or RTD	None	Voltage/SSR	07J9811	185.48

CONTROLLER OPTION UNITS

Mfg. Part No.	Description	Stock No.	Price Each
E53-CNHBN2	Control output 2 (Voltage for diving SSR)	10R5237	43.06
E53-CN03N2	Communication RS-485	08R9226	85.36
E53-CNBN2	Event Inputs	10R5236	43.06

(148697)

E5EN SERIES DIGITAL TEMPERATURE CONTROLLERS

The E5EN series 1/2 DIN has various temperature inputs, auto-tuning and self-tuning available, heat or heat/cool control available. Event input option allows multiple SP selection and run/stop function. NEMA 4X front face. UL recognized, CSA certified, CE compliant. Other DC voltage types available; go online or call.



E5EN



Just Added

E5EN SERIES 1/2 DIN DIGITAL TEMPERATURE CONTROLLERS

Mfg. Part No.	Output	Voltage	Stock No.	Price Each	
				1-9	10-24
E5EN-R3HMT-500 AC/DC24	3 Alarm, Heater Burnout, Relay	24VAC/VDC	96B0113	239.06	227.36
E5EN-R3MT-500-N AC100-240	3 Relay Output	100 to 240 VAC	08R9136	369.48	351.40
E5EN-R3HMT-500-N AC100-240	3 Alarm Heater Burnout, Relay	100 to 240 VAC	10R5235	262.76	249.90
E5EN-Q3MT-500-N AC100-240	3 Alarm Voltage Output	100 to 240 VAC	08R9123	360.55	342.92

(51796)

TEMPERATURE CONTROLLERS



Model TCU



Model T16



Model T48

Can operate in the PID control mode for both heating and cooling, with on-demand auto-tune or ON/OFF control mode with adjustable hysteresis. CE compliant, UL recognized.

RANGE AND ACCURACY FOR MODEL TCU TEMPERATURE CONTROLLERS

TC Type	Range	Accuracy	Wire Color (ANSI)
T	-200°C to +400°C -328°F to +752°F	0.20% + 1.5°C 0.20% + 2.7°F	Blue
E	-200°C to +750°C -328 °F to +1382°F	0.20% + 1.5°C 0.20% + 2.7°F	Violet
J	-200°C to +760°C -328°F to +1400°F	0.15% + 1.5°C 0.15% + 2.7°F	White
K	-200°C to +1250°C -328°F to +2282°F	0.20% + 1.5°C 0.20% + 2.7°F	Yellow
R	0°C to +1768°C +32°F to +3214°F	0.15% + 2.5°C 0.15% + 4.5°F	Black
S	0°C to +1768°C +32°F to +3214°F	0.15% + 2.5°C 0.15% + 4.5°F	Black
B	+200°C to +1820°C +300°F to +3308°F	0.15% + 2.5°C 0.15% + 4.5°F	Grey
N	-200°C to +1300°C -328°F to +2372°F	0.20% + 1.5°C 0.20% + 2.7°F	Orange
mV	-5.00 to 56.00	0.15% + 1 LSD	...
RTD (385)	-200°C to +600°C -328°F to +1100°F	0.10% + 0.5°C 0.10% + 0.9°F	...
RTD (392)	-200°C to +600°C -328°F to +1100°F	0.10% + 0.5°C 0.10% + 0.9°F	...
OHMS	1.0 to 320.0	0.15% + 1 LSD	...

MODEL TCU TEMPERATURE CONTROL UNITS

Programmable user input (digital) for added flexibility. Manual/automatic and local/remote setpoint control modes. Setpoint ramping for process startup. Optional RS485 serial communications interface as well as additional options available; go online or call.

Mfg. Part No.	Input Voltage	Input Type	Output Type	Alarms	Stock No.	Price Each
TCU00000	115/230VAC	Thermocouple or RTD	Voltage/SSR	...	84K7518	249.00
TCU01001	115/230VAC	Thermocouple or RTD	Voltage/SSR	...	84K7519	358.00
TCU10001	115/230VAC	Thermocouple or RTD	Voltage/SSR	2 Relay	84K7520	337.00
TCU10002	115/230VAC	Thermocouple or RTD	Voltage/SSR	Relay	84K7521	347.00

MODEL T16 TEMPERATURE/PROCESS CONTROLLERS

On demand auto-tuning. User programmable function button. Other options available; go online or call.

● T1610000	85-250VAC	Thermocouple or RTD	Relay	...	84K7522	125.00
● T1620000	85-250VAC	Thermocouple or RTD	Voltage/SSR	...	84K7523	125.00

MODEL T48 1/2 DIN TEMPERATURE CONTROLLERS

On demand auto-tuning. Setpoint ramping for process startup. Programmable user input (digital) for added flexibility. Other options available; go online or call.

T4810000	85-250VAC	Thermocouple or RTD	Relay	...	84K7524	197.00
T4820000	85-250VAC	Thermocouple or RTD	Voltage/SSR	...	84K7525	197.00
T4821000*	85-250VAC	Thermocouple or RTD	Voltage/SSR	Relay	84K7526	223.00
T4821100*†	85-250VAC	Thermocouple or RTD	Voltage/SSR	2 Relay	84K7527	238.00

*With NEMA 4X/P65 bezel.

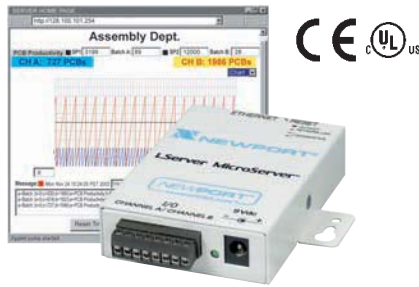
†With cooling output. (88725)

COUNTERS • COUNTERS – MINI

ISERVER INTERNET COUNTER

NEW TECHNOLOGY

NEWPORT



- Displays Rate, Frequency, Pulse, Total, Batch, and Quadrature over Ethernet and Internet
- Web based interface
- Up to 500 KHz input
- Chart, Bar Graph, and X/Y displays
- 2 Channel input/output

The NEWPORT® iFPX Internet Counter puts “dumb” data on the World Wide Web. This revolutionary technology transmits virtually any conventional counting application up to 500 KHz over an Ethernet network or the Internet. The NEWPORT iFPX (Internet Frequency Pulse Transmitter) can count contacts from the simplest button or switch, as well as count pulses from most any conventional transducer such as a proximity sensor or quadrature encoder. The iFPX converts raw data to intelligent information.

The iFPX can be configured as a virtual version of most any Rate/Frequency Meter, Totalizer, or Batch Controller. It is a node on an Ethernet network with a unique IP address and serves the data to any authorized computer on a LAN, WAN or the Internet. Set points can be programmed to trigger an alarm and even send email automatically to a Web-enabled cell phone.

Mfg. Part No.	Description	Stock No.	Price Each
IFPX-W	iServer MicroServer for Frequency Pulse application (up to 100 KHz input with EMC filtering) and ac power adapter	05R6498	245.00
IFPX-D	Industrial iServer MicroServer for Frequency Pulse application (up to 100 KHz input with EMC filtering)	05R6496	245.00
IFPX-W5	iServer MicroServer for Frequency Pulse application (up to 500 KHz input with EMC filtering) and ac power adapter	05R6499	270.00
IFPX-D5	Industrial iServer MicroServer for Frequency Pulse application (up to 500 KHz input with EMC filtering)	05R6497	270.00

(147123)

COMPACT LCD COUNTERS & TIMERS (CONT.)

Mfg. Part No.	Input Type	No. of Digits	Stock No.	Price Each
LE8N-BF	Universal Voltage	8	10R5267	55.06
LE8N-BN	No-Voltage	8	10R5268	51.26

(148668)

TOTALIZERS, ELAPSED TIMERS & COUNT/TIME CONTROLS

RoHS Compliant Available

EATON



Totalizer/Elapsed Timer



Preset Counter

Model E4148793 is a 45 x 45mm single-level preset counter/timer with a 2-line LCD and a NEMA 4/IP65 front panel. Input power: 94-240VAC provides sensor excitation of 12VDC @ 100mA. Count speeds to 10kHz with scaling. The SPDT relay output is rated at 5A @ 250V resistive load. Size: 2.01H x 2.01W x 3.54"D. Model E4148792, is a 48 x 48mm dual-level preset counter that can be configured as a single preset counter with batch control output. Model E402400 is an 8-digit totalizer. The E40 series is capable of count speeds of up to 10kHz. The E42 series are solid-state hour meters that record and display up to 999,999.9 hours, roll over and continue timing.

Mfg. Part No.	Description	Stock No.	Price Each
E5-024-C0400	8-Digit Totalizer (Count Up)	53M4776	41.36

ACCESSORIES

E40VOLTT	Voltage Adapter for Model E40I2475 5-240VAC/VDC	16F8946	22.95
E40TERM	Provides Screw Terminal Connections for Conductors Up To 14 Gauge	91B6699	17.62

(6627)

TOTALIZING COUNTERS AND ELAPSED TIME INDICATORS

UL

RoHS Compliant Available

Crouzet
More than a standard



- DIN 24x48mm enclosure
- Remote or front-panel reset (can be disabled)
- Powered by lithium battery
- IP64 watertight seal on front panel

The 87610 Series accepts line voltage inputs.

Mfg. Part No.	Description	Inputs	Stock No.	Price Each	
87610340	8-digit counter	Contact	17M8530	38.72	35.06
87610440	99999.9 hrs.	Contact	92F3718	38.72	35.06
87610050	8-digit counter	Voltage	17M8528	104.10	94.26
87610150	99999.9 hrs.	Voltage	92F3720	104.10	94.26
87610040	Totalizing Counter	Contact	34B4674	104.10	94.26

(2784)

COMPACT COUNT/TIME/RPM TOTALIZERS

UL

RoHS Compliant Available

OMRON
INDUSTRIAL AUTOMATION



H7EC Backlit

H7ER Backlit

H7ET

H7 series digital compact totalizers offer up, down, cumulative count, time, and rpm functions in self-powered (replaceable battery) or 100-240VDC supply voltage modes. Feature large easy-to-read displays, selectable input range and speeds. Color: black. Front meets NEMA enclosure type 4 and IEC enclosure IPC66. All feature screw terminals for quick installation and a variety of inputs. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Description	Stock No.	Price Each	
H7EC-N-B	8-Digit Self-Powered, Totalizer, No-Voltage Input, Selectable Between 30cps or 1Kcps.	94B7609	62.41	59.60
H7EC-NV-B	8-Digit Self-Powered, Totalizer, NPN/PNP DC Voltage Input, Selectable Between 30cps or 1Kcps.	94B2566	76.63	73.19
H7EC-NFV-B	8-Digit Self-Powered, Totalizer, AC/DC Multi-Voltage Input, Max. Count Speed: 20Hz	93K7587	95.95	91.63
H7EC-NV-BH	8-Digit LCD Backlit Display, Self-Powered Totalizer, PNP/NPN Universal DC Voltage Input, Selectable Count Speed: 30 Hz/KHz	88K1951	76.63	73.19
H7ET-N-B	7-Digit Self-Powered, Time Totalizer, No Voltage Input, Selectable Between 999999.9h and 3999d23.9h	88K1111	76.63	73.19
H7ET-NV-B	7-Digit Self-Powered, Time Totalizer, NPN/PNP DC Voltage Input, Selectable Between 999999.9h and 3999d23.9h	88K1953	79.92	76.33
H7ET-NV-BH	7-Digit LCD Backlit Display, Self Powered Hour Meter, PNP/NPN Universal Voltage (DC), Input, Selectable Time Range 999999.9 and 3999d23.9h.	95B4029	79.92	76.33
H7ER-NV1-B	7-Digit LCD Display, Self Powered Tachometer, PNP/NPN Universal Voltage (DC) Input, Selectable RPM Range 1000-10,000, Selectable RPS Range of 0- 1000 RPS.	08H0619	82.11	78.42
H7ER-NV1-BH	7-Digit LCD Backlit Display, Self Powered Tachometer, PNP/NPN Universal Voltage (DC) Input, Selectable RPM Range 1000-10,000, Selectable RPS Range of 0-1000 RPS.	81C7942	83.45	79.70

(51871)

COMPACT LCD COUNTERS & TIMERS

UL

Just Added

Autonics
Sensors & Controllers



LA8N



LE8N

- Compact size indicators
- Internal lithium battery
- LCD display

- Built-in Microprocessor
- IP66 rated (front panel only)
- Universal or No-voltage input options

LA8N SERIES COUNTERS

Mfg. Part No.	Input Type	No. of Digits	Stock No.	Price Each
LA8N-BF	Universal Voltage	8	10R5265	55.06
LA8N-BN	No-Voltage	8	10R5266	51.26

LE8N SERIES TIMERS

CONTINUED

COUNTERS – MINI

94 SERIES ELECTRONIC COUNTERS



9415-001



9415-003



9415-005

Battery-powered 6-digit LCD counters feature 6-240VAC or VDC inputs. Interchangeable with most electromechanical counters. Digits are 0.50" high. Base-mount unit dimensions in inches: 1.65(H) x 3.81(W) x 2.97(D). Panel mount unit dimensions in inches: 1.50(H) x 4.44(W) x 2.90(D). Rated 2400cpm with sensor input. Load resistor (1500 ohms, 10 watts) across input terminals required when using AC sensors. Weight: 1.1 lbs. Hour Meter versions also available, go online or call.

Mfg. Part No.	Mounting Type	Reset	Stock No.	Price Each
				Each
9415-001	Base	Manual	48M1363	171.50
9415-003	Panel	Manual	81F474	181.85
9415-005	Panel	Lock & Key	81F475	199.60

(2841)

5300 SERIES TOTALIZERS, HOURMETERS AND TACHOMETERS



Manual and Remote Reset



Remote Reset

Redington's model 53 digital electronic totalizers, hourmeters and tachometers use innovative technology to provide unparalleled accuracy and reliability over a wide range of applications. Positive locking mounting clip and compact size make it ideally suited for control panels, instrumentation assemblies, business machines or wherever space is a concern. Panel cutout 1.79" x 0.89". 7 figures, 0.32" high LCD display. Typical 20-yr. life with lithium battery. Termination: terminal block. Wire leads and 8-digit versions available, go online or call. Color: tan. Black versions available, go online or call. UL recognized, CSA certified and CE compliant.

TOTALIZERS

Mfg. Part No.	Input Type	Voltage	Reset	Stock No.	Price Each
5300-0000	0-40 and 0-150 cps	None (Switch)	Remote	48M1307	45.40
5300-1000	0-40 and 0-150 cps	3-30VDC	Remote	66F1114	45.40
5300-0100	0-40 and 0-150 cps	None (Switch)	Manual/Remote	66F1115	45.40
5300-1100	0-40 and 0-150 cps	3-30VDC	Manual/Remote	66F1116	45.40

20-250VAC/VDC TOTALIZER

5300-2000	0-40 cps	20-250VAC	Remote	48M1308	58.90
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HOURMETERS

Mfg. Part No.	Voltage	Reset	Stock No.	Price Each
5320-0000	None (Switch)	Remote	48M1309	45.40
5320-0100	None (Switch)	Manual/Remote	66F1120	45.40
5320-1000	3-30VDC	Remote	48M1310	45.40

20-250VAC/VDC HOURMETER

5320-2000	20-250VDC	Remote	66F1111	58.90
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TACHOMETER

Mfg. Part No.	Input Type	Voltage	Reset	Stock No.	Price Each
5330-0000	10,000 cps (max.)	None (Switch)	Remote	66F1112	45.40

(2782)

TACHOMETERS AND RATE INDICATORS

A103 series tachometers provide readout of motor, machine shaft or other RPM. Rate indicators provide a readout of virtually any rate: gallons/minute, parts/hour, feet/minute, etc. LCD with backlighting capability. All units use an internal 3-volt single or dual battery. Magnetic input is capacitive coupled; 10kHz (50% duty cycle); 0.2V peak (28VDC max.). Fits 68 x 33 mm cutout. Input scale multipliers for rate (0.001 to 9,999) and total (0.0001 to 99,999.99). Weight: 2.25 oz. (64 g). Front panel is rated NEMA 4/IP65 for use in washdown environments. Order matching totalizing and preset counters and elapsed time indicators, and quick-action option modules separately, go online or call.

Mfg. Part No.	Description	Stock No.	Price Each
A103-003	Tachometer	52F1235	107.14
A103-004	Programmable Rate Meter	52F1236	122.76
A103-005*	Rate Meter & Totalizer	52F1237	140.62

*Provides total count as well as rate.
(2846)

A-103 SERIES TOTALIZING, PRESET COUNTERS, TACHOMETERS, AND PRESET TIMERS



Eagle Signal brand

A103 series totalizing and preset counters are compact and cost-efficient. Features include a supertwist LCD with .47" (12mm) high digits and green illumination display backlight capability. 3-volt lithium battery eliminates need for external power. Accepts input signals from dry contact, PNP, or NPN sensors and encoders. High and low speed count inputs. Reset on front panel or remotely. Fits 68 x 33 mm cut-out. Front panel rated NEMA 4/IP65.

Mfg. Part No.	Description	Stock No.	Price Each
			1-5
A103-000	Totalizer	52F1232	92.63
A103-001	Add/Subtract Totalizer	52F1233	122.76
A103-002	Position Indicator	52F1234	122.76
A103-007	Preset Counter	52F1239	140.62

(2844)

VEEDER-ROOT BRAND MITE SERIES ELECTRONIC TOTALIZING COUNTERS, RATE INDICATORS, AND TIME METERS



Veeder-Root brand

MITE series 7mm high (8-digit) LCD displays feature compact overall size. Fit 45 x 22mm panel cut-out. Totalizers are powered by an internal lithium cell, and available in model 79998D-110 unidirectional and model 79998D-410 bidirectional models that are capable of count speeds to 10kHz. Model 79998D-410 bidirectional totalizer provides count/direction operation—one input receives count pulses, while a second input controls counting direction. Self-powered timer model 79998D-510 has timing ranges for seconds or minutes and seconds; model 79998D-610 has timing ranges for hours or hours and 1/100ths. Model 79998D-801 tachometer with totalizer function has selectable frequency or period modes and allows application with a variety of sensors including one-pulse-per-revolution pickups. All units rated NEMA-4/IP65. Order input adaptors separately below.

Mfg. Part No.	Description	Stock No.	Price Each
79998D-110	Totalizer-add	63K9812	58.52
079998D-510	Timer-seconds or minutes & seconds	27C4586	65.14
079998D-610	Timer-hours or hours and 100ths	27C7532	65.14

SNAP-ON INPUT ADAPTORS

108938-0001	5-240VAC/VDC for totalizers	48F2261	23.74
108940-0001	5-240VAC/VDC for totalizers	48F2262	23.74
108937-0001	Screw terminal for MITE series 79998D models	48F2263	20.43

(2918)



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(148930)

COUNTERS – MINI • COUNTERS – 1/16 DIN

C342 SERIES LCD AND LED COUNTERS, TIMERS AND TACHOMETERS



Veeder-Root brand

DIN-sized family of count totalizing, elapsed-time totalizing, and speed meters with LCD or LED displays. Self-powered models contain long-life lithium battery. Externally powered models accept 12-24VDC power supply and nonvolatile RAM to provide data memory. Counters and timers have panel and remote reset. Display: 7mm-high, 8-digit LCD, or 7.6mm-high, 6-digit LED. Dimensions: 0.94H x 1.9W x 1.25"D (24 x 48 x 32). Operating temperature: -10°C to +50°C. Front panel meets IEC enclosure IP65 classification.

COUNT TOTALIZERS

Mfg. Part No.	Description	Display	Power Source	Stock No.	Price Each
					1-4
C342-0462	Contact or Logic-Count Input	LCD	External DC	01B2159	56.06
C342-0464	Contact or Logic-Count Input	LCD	Battery	48F2149	49.83
C342-0474	High-Voltage (12-250VAC/VDC) Count Input	LCD	Battery	48F2150	65.40
C342-0562	Contact or Logic-Count Input	LED	External DC	48F2157	121.45

TIME TOTALIZERS

C342-1464	Hours:Minutes:Seconds Resolution; Contact or Logic Input	LCD	Battery	48F2151	56.06
C342-1474	Hours:Minutes:Seconds Resolution; High-Voltage (12-250VAC/VDC) Count Input	LCD	Battery	48F2153	72.66
C342-2474	Hours and 1/100 Resolution. High-Voltage (12-250VAC/VDC) Count Input	LCD	Battery	48F2154	72.66
C342-1562	Hours:Minutes:Seconds Resolution; Contact or Logic Input	LED	External DC	48F2158	126.64

TACHOMETERS

C342-3464	Contact or Logic-Count Input	LCD	Battery	48F2155	65.40
C342-3462	Contact or Logic-Count Input	LCD	External DC	48F2156	78.89

(33785)

TOUCH TYPE COUNTER/TIMER

Just Added

Autonics Sensors & Controllers



CT4S



CT6S

- Selectable Counter or Timer function
- Multi-functional Counter/Timer (Includes 829,728 functions)
- Prescale function
- High speed counting of 10kcps
- Selectable Voltage input (PNP) or No voltage input (NPN)
- Able to set ON/OFF time individually in Flicker (FLK) mode
- Key Lock function

Mfg. Part No.	Supply Voltage	No. of Digits	Stock No.	Price Each
				1-4
CT4S	100-240VAC 50/60 Hz; 24-60VAC 50/60 Hz, 24-60DC	4	10R5263	100.17
CT6S	100-240VAC 50/60 Hz; 24-60VAC 50/60 Hz, 24-60DC	6	10R5264	100.17

(148667)



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(148833)

MULTIFUNCTION DIGITAL COUNTER



- Advanced 1/16 DIN Preset Counter with Enhanced Features
- Configure as 1- or 2-Stage, Total, Batch, or Dual Counter or Tachometer, Depending on Model
- High-Speed Response up to 5kHz, Can Be Scaled to 10kHz
- All Parameters Set Via Front Panel or DIP Switch Settings
- PNP/NPN Selectable Input
- Key Protection Function
- NEMA4/IP66 Front Panel
- Programmable Display Color Alerts Any Output Status Change

All units have 12VDC sensor power supply, contact output type and black case. UL listed, CE compliant. Units with no power supply, transistor output and light gray case are also available; go online or call.

STANDARD COUNTERS (1-STAGE)

Mfg. Part No.	Supply Voltage	No. of Digits	Termination	Stock No.	Price Each	
					1-24	25-49
H7CX-A11-AC100-240	100-240VAC	4	11-Pin Socket	77C5953	212.04	205.20
H7CX-A11D1 DC12-24/AC24	12-24VDC or 24VAC	6	11-Pin Socket	77C5954	230.28	224.58
H7CX-A AC100-240	100-240VAC	6	Screw Terminal	18M7372	200.88	194.40
H7CX-A114 AC100-240	100-240VAC	4	11-Pin Socket	18M7373	200.88	194.40
H7CX-A114D1 DC12-24/AC24	12-24VDC or 24VAC	4	11-Pin Socket	77C5956	272.48	263.69
H7CX-A4 AC100-240	100-240VAC	4	Screw Terminal	77C5957	200.88	194.40

ADVANCED COUNTERS (2-STAGE)

H7CX-AW AC100-240	100-240VAC	6	Screw Terminal	77C5951	245.52	237.60
H7CX-AWD1 DC12-24/AC24	12-24VDC or 24VAC	6	Screw Terminal	77C5952	245.52	237.60
H7CX-A4W AC100-240	100-240VAC	4	Screw Terminal	77C5958	245.52	237.60
H7CX-AWSDC DC12-24	12-24DC	6	Screw Terminal	97H3209	272.48	263.69

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	5-14
Y92F-30	Flush Mounting Adapter, Supplied with Screw Terminal Units	88K2030	9.47	9.24
Y92S-29	Waterproof Packing, Supplied with Screw Terminal Units	88K1287	6.98	6.75
Y92A-48F1	Soft Cover	90B9875	22.90	22.16
P2CF-11	11-Pin Track Mounting Front Connecting Socket	85F300	13.71	13.27
P2CF-11-E	11-Pin Track-Mounting, Front-Connecting Socket with Finger-Safe Terminals	98B1828	10.36	9.52
P3GA-11	11-Pin Track-Mounting, Back-Connecting Socket	88K1976	10.56	10.30
PPF-100N	DIN Rail Mounting Track, 1m x 7.3 in	17M7511	5.92	5.55
PPF-100N2	DIN Rail Mounting Track, 1M x 16mm	34K8630	12.62	11.83
PPF-50N	DIN Rail Mounting Track, 50cm x 7.3mm	93B2043	4.72	4.51
PPF-M	End Plate	36K3451	0.75	0.72
PPF-S	Spacer	17M7510	0.44	0.43

(73802)

VEEDER-ROOT BRAND C346 PRESET COUNTERS



Veeder-Root brand



Simple button per digit setting and choice of single-line 6-digit LED or LCD display allow optimum operator interface. Very flexible input circuit with scaling feature accepts signals from encoders, NPN (sinking), PNP (sourcing), and contact-closure inputs. Suitable for most preset counting applications. Size: 1/16 DIN (48W x 48mmH) Display: 6 digit, LED or LCD. Power: 120VAC standard; optional 240VAC, 24VDC. Preset levels: 1 or 2.5 amp relay and NPN transistor per output. Input scaling: x0.001 to 9.999. Input: sinking, sourcing, contact closure, add/subtract, add/add, quadrature. Maximum count speed: 5kHz.

Mfg. Part No.	Type	Stock No.	Price Each
			1-5
C346-0411	LCD/Single Preset/115VAC	16F4072	234.63
C346-0412	LCD/Single Preset/12-24VDC	01B2178	227.86
C346-0421	LCD/Dual Preset/115VAC	16F4073	274.11
C346-0511	LED/Single Preset/115VAC	16F4074	283.13
C346-0521	LED/Dual Preset/115VAC	16F4075	316.97

(3061)

COUNTERS – 1/16 DIN • COUNTERS – 36 X 72

VEEDER-ROOT BRAND SQUIRE™ PREDETERMINING COUNTERS



Offer single or dual preset count capability, or single preset count capability with a presettable batch counter. Backlit LCD display provides simultaneous count and preset indication. Nonvolatile memory retains memory during power loss. Models with calibration feature input signal to appropriate engineering unit. Annunciators and simple key sequences make operation quick and easy. A variety of count sources are accommodated, including switch or relay contacts, photoelectrics, proximity switches, and unidirectional or bidirectional encoders. Solid-state outputs interface to light-duty devices, while relay contacts offer heavy-duty load switching. Maximum count speed: 2.4kHz. 115VAC, 50/60Hz. Fit panel cut-out: 1.772"x1.772" (45.01x45.01).



MODEL CUB5 36 x 72mm



5-Digit



8-Digit

- LCD reflective or red/green LED backlighting display
- NEMA 4X/IP65 sealed front bezel
- Operates from 9 to 28VDC power source
- Display color change capability at preset output
- Optional serial communications module (RS232 or RS485)

SPECIFICATIONS

Display Options	LCD, Reflective or Green/Red LED Backlighting*
No. of Digits	5 or 8
Digit Height	0.48" or 0.46"
Input Voltage	9-28VDC
Current Meters Input Range	200µADC, 2mADC, 20mADC, 200mADC
Voltage Meters Input Range	200mVDC, 2VDC, 20VDC, 200VDC
Count Modes (Counters and Rate Indicators)	Count with Direction, Rate/Counter, Dual Counter, Quadrature x 1, Quadrature x 2, Quadrature x 4, 2 Input Add/Add, 2 Input Add/Subtract
Quadrature Sensing (Counters and Rate Indicators)	1x, 2x, 4x

*Backlight versions require an external 9-28VDC power supply

CUB5 CURRENT AND VOLTAGE METERS

Four selectable DC ranges. 0.48" high digits. Minimum and maximum display capture. Optional setpoint output modules. Front panel or crimson programmable.

CURRENT METER

Mfg. Part No.	No. of Digits	Display Type	Backlight Color	Stock No.	Price Each
CUB5IB00	5	LCD Selectable Transmissive	Red Or Green	17M9129	140.00

VOLTAGE METERS

● CUB5VR00	5	LCD Positive Reflective	...	18M8514	125.00
● CUB5VB00	5	LCD Selectable Transmissive	Red Or Green	14P9744	140.00

CUB5 MINIATURE DUAL COUNTERS AND RATE INDICATORS

Optional relay output module. Count speeds up to 20kHz. Can be programmed as a single or dual counter with rate indication capability. Programmable for one of eight different count modes. When programmed as a dual counter, each counter has a separate scale factor and decimal points. In the counter/rate indicator mode, each have their own scaling and decimal point read-outs in different engineering units. Two separate inputs provide different functions depending on which operating mode is selected.

Mfg. Part No.	No. of Digits	Display Type	Backlight Color	Stock No.	Price Each
● CUB5B000	8	LCD Selectable Transmissive	Red Or Green	84K7434	113.00
● CUB5R000	8	LED	...	84K7438	101.00

OPTIONAL PLUG-IN CARDS

Mfg. Part No.	Description	Stock No.	Price Each
● CUB5COM1	RS485 Serial Communications Card	84K7435	30.00
● CUB5COM2	RS232 Serial Communications Card	84K7436	30.00
● CUB5RLY0	Single Relay Option Card	14P9743	20.00

VEEDER-ROOT BRAND V4545 SERIES PRESET COUNTERS



V4545 series counters are suited for applications such as cut-to-length and filling. Dual input channels accept input from a variety of sources, including encoders, dry contact, and PNP and NPN sensors. Prescale function translates signals into useful units of measure. Can be used for reversible or quadrature counting. Models available with single or dual preset, and the ability to direct batching operations. Each preset value features a transistor and a relay output. Outputs can be programmed for latching or timed operation. Large dual line LED. Scale function allows display of engineering units. High speed counting up to 10kHz. 48W x 48mm H. Panel mount (bracket supplied), fits 45 x 45mm cutout. 7 ounces (198 g).



V45450-1 Counter, Single Preset

Mfg. Part No.	Description	Stock No.	Price Each
V45450-1	Single Preset	52F1253	249.92
V45450-2	Dual Preset	52F1254	279.82
V45450-3	Single Preset, w/Batch	52F1255	279.82

(2989)

DITAK 8 - ADJUSTABLE TIMEBASE 5-DIGIT RATE INDICATORS



- Adjustable timebase from 4 msec to 32 sec
- Internal lithium battery provides over 7 years of continuous operation
- NEMA 4X/IP65 sealed front panel bezel
- Accepts magnetic or logic type signal inputs
- Wire connections made via screw clamp type terminals



Self-powered rate indicators that feature selectable timebase increments by setting the appropriate DIP switches on the rear of the unit. 5-digit LCD display with 0.6" high digits. Displays are available in positive image reflective (black digits, reflective background) or negative image transmissive (illuminated digits, dark background). Backlight versions require power from an external 9-28VDC power supply. CE compliant. Yellow/Green backlight available; go online or call.

Mfg. Part No.	Display Type	Backlight Color	Stock No.	Price Each
● DT800000	LCD Positive Reflective	...	84K7447	80.00
● DT800020	LCD Negative Image Transmissive	Red	84K7448	103.00

(88721)

MODEL CUB7 COUNTERS AND MODEL CUB7T PROGRAMMABLE ELECTRONIC TIMERS



CUB7



CUB7T

- Count speeds up to 10kHz (counter)
- Replaceable internal lithium battery provides up to 6 years (timer) and 7 years (counter) of uninterrupted operation
- 10 programmable timer ranges (timer)
- Front panel program and reset buttons are individually enabled (timer)
- Front panel and remote reset input (counter)

SPECIFICATIONS

Type	Counter	Timer
LCD Display Options	Reflective or Transmissive with Yellow/Green or Red LED Backlighting*	Reflective, Red Transmissive, Yellow/Green Transmissive with "Timer Active" Annunciator
No. of Digits	8	8
Digit Height	0.35"	0.35"

▶ CONTINUED ▶

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(148838)

COUNTERS – 36 X 72 • COUNTERS – 74 X 74 • COUNTERS – 1/8 DIN

MODEL CUB7 COUNTERS AND MODEL CUB7T PROGRAMMABLE ELECTRONIC TIMERS (CONT.)

Type	Counter	Timer
Wire Connection Casing	Screw clamp type terminals NEMA 4X/IP65 Sealed Front Bezel	Screw clamp type terminals NEMA 4X/IP65 Sealed Front Bezel

*Backlight versions require an external 9-28VDC power supply

CUB7 MINIATURE ELECTRONIC 8-DIGIT COUNTERS

Low speed input: 30Hz from switch contact to open collector transistor with 50% duty cycle. High speed input: 10KHz max. from 3.0V bipolar output with 50% duty cycle.

Mfg. Part No.	Signal Input	Display Type	Backlight Color	Stock No.	Price Each
● CUB70000	Contact	LCD Positive Image Reflective	...	84K7445	48.00
● CUB70020	Contact	LCD Positive Reflective	Red	84K7446	68.00

CUB7T PROGRAMMABLE ELECTRONIC TIMERS

Contact versions operate from a switch or an open collector NPN transistor. Contact burden 15µA. A maintained closed switch to COM will actuate the timer. Voltage versions operate from a signal voltage of 10-300V (AC 50/60Hz or DC). 150V max. for backlight versions. Any offstate leakage current may activate the timer. Constant voltage applied to the input will actuate the timer. Due to the internal digital filtering to this input, up to 30 msec. of error may be added per activation of the signal input.

Mfg. Part No.	Signal Input	Display Type	Backlight Color	Stock No.	Price Each
● CUB7T000	Contact	LED Positive Image Reflective	...	84K7439	45.00
● CUB7T010	Contact	LCD Negative Image Transmissive	Yellow Green	84K7440	65.00
● CUB7T020	Contact	LCD Negative Image Transmissive	Red	84K7441	65.00
● CUB7T100	Voltage	LED Positive Image Reflective	...	84K7442	45.00
● CUB7T110	Voltage	LCD Negative Image Transmissive	Yellow Green	84K7443	65.00
● CUB7T120	Voltage	LCD Negative Image Transmissive	Red	84K7444	65.00

(88579)

AMBASSADORT™ SERIES LCD MULTIFUNCTION COUNT CONTROLS

Compact controls feature 8 decade totalizing counter, 6 decade 1/TAU rate indicator, 9 programmable count input modes, 4 control inputs, programmable count and rate scalars, programmable decimal point for count and rate display, 2 programmable open collector transistor outputs, and programmable RS-485 half-duplex serial interface. NEMA 4 rated sealed front panel has full alpha-numeric, 16 character, 0.3" (7) high dot matrix LCD backlight display with 8-position tactile feel keyboard. 74x74mm DIN package. Input power: 115VAC. Units have 12VDC (±25%) 100mA maximum DC power output for input device. Space-saving 2.677" x 2.677" (68 x 68) panel cut-out; 0.500" (12.7) maximum panel thickness. **Mfg. part nos. 57601-401 thru 57601-404** have 6 decade main counter with 1 or 2 preset levels. **Mfg. part nos. 57601-402 and 57601-404** also have 6 decade batch counter with 1 preset level. **Mfg. part no. 57601-405** has 6 decade batch counter with 4 preset levels.



57601-404

GREEN LCD DISPLAY

Mfg. Part No.	Description	Stock No.	Price Each
● 57601400	Totalizer & Rate Indicator	50F927	289.63
● 57601401	Single Preset Counter & Rate Indicator	89M5408	343.79
● 57601402	Single Preset Counter, Rate Indicator, Batch Counter & Totalizer	89M5409	376.97
57601403	Dual Preset Counter & Rate Indicator	50F930	376.97
● 57601404	Dual Preset Counter, Rate Indicator, Batch Counter & Totalizer	50F931	432.24
● 57601405	Quad (4) Preset Counter w/Batch, Rate, Totalizer	83F7295	466.50

(2704)

ECLIPSE SERIES COUNT, RATE, TEMPERATURE AND PROCESS INDICATORS



Full-featured DPM/process meter offers simple front panel programming and calibration, universal input power and NEMA 4 rated front panel for installation in wet areas. AC (85-265VAC) power supply. 1/8 DIN cutout. LED display. Tactile keypad. Removable connectors. Panel depth: 3.6".



Mfg. Part No.	Description	Stock No.	Price Each
● 57701450	Process (4-20mA, 0-10V, 1-5V), No Output	89M5411	227.54
● 57701451	Process Meter, 2 Alarms, Relay Out, 85-265VAC Power	16C1111	284.98
● 57701461	Temperature Indicator, 2 Alarms, Relay Out, 85-265VAC Power	94B7223	383.04
● 57701470	Ratemeter, No Outputs	90B7449	214.65
● 57701471	Ratemeter, 85-265VAC, Rate, Relay out, Alarm Outputs	50B3001	273.99
● 57701480	Count/Totalizer, No Outputs	50B3002	318.08
● 57701481	6-digit, 1 or 2 Preset Count Control, Relay Output	90B7451	290.85

(68932)

PRESIDENT SERIES LED TOTALIZERS/COUNT CONTROLS



Electronic measuring systems feature color-coded keyboard control panel for simple selection and programmability. 0.56" (14) LED display for count and preset values. Sealed front panel meets NEMA 4 specifications. 120/240VAC, 12VDC power input. Units have 15VDC (+1, -2 volts) 100mA maximum DC power output for input device. Non-volatile memory. All models mount in 2.677"H x 5.433"W (67 x 136) panel cut-out except **mfg. part no. 58810** which mounts in 1.771"H x 5.433"W (44 x 137) panel cut-out.



57820-400

Mfg. Part No.	Description	Stock No.	Price Each
● 57820400	5-Digit, Single-Preset Control with Ratemeter	89M5412	462.69
● 58821-400	5-Digit, Single-Preset Control with Scaling	50F923	663.80
● 58831400	5-Digit, Dual-Preset Control with Scaling	98F3649	670.38
58851400	6-Digit, Dual-Preset Control with Presettable Batch Counter, Totalizer and Scaling	50F920	814.97
● 58861400	6-Digit, Triple-Preset Control with Scaling	50F918	814.97
● 58827400	6-Digit, Single-Preset Control with Presettable Totalizer, Batch Counter and Ratemeter	50F916	847.85
● 58810400	8-Digit Totalizer	50F924	501.57
● 58841400	6-Digit, Dual-Preset Control with Batch Counter, Scaling, and Crop Cut	94F9798	762.39

(2705)

LAUREATE™ FREQUENCY, RATE AND PERIOD COUNTERS



- Optional second channel allows both channels to be independently sealable
- Frequency from 0.005Hz to 1MHz
- 6-digit resolution at update rates up to 25/s
- Selectable "count by" of 10 or 100 with rounding
- NEMA 4X, 1/8 DIN case



The counter determines the frequency by timing an integral number of periods over a specified gate time and then taking the inverse of the period. The inverse period approach allows greater accuracy and faster update times than conventional meters which count signal pulses over a specified time interval. Isolated 5, 10 or 24VDC excitation supply to power sensors. Green or red LED display. Display will flash and go into four-digit XXXXX scientific notation when count exceeds 999,999. Square root extraction is standard. Each channel (A or B) may be independently scaled for frequency, rate or period. An adaptive filter can reduce variations due to noise. Up to 180 data points can be input into a spreadsheet or text file for custom linearization. 1/8 DIN case meets NEMA 4X (IP-65) standards. Choice of isolated plug-in options for control and computer interface: dual relays, analog output, serial communications, parallel BCD output, low voltage AC and DC power available; go online or call. UL listed, CE certified.

STANDARD MAIN BOARD

Scalable to ±999,999 for frequency, rate, square root of rate, up or down total, period, A-to-B time interval.

Mfg. Part No.	Setpoint Output	Analog Output	Stock No.	Price Each
L60000FR	...	...	84K0401	230.00
L60010FR	...	Isolated 0-20mA and 0-10V	84K0402	320.00
L60100FR	Relay	...	84K0403	310.00

EXTENDED MAIN BOARD

All of the features of the standard main board plus rate and total simultaneously, ration (A/B), draw (A/B-1), other arithmetic functions (AxB, A+B, A-B), phase angle, stopwatch, up/down counting, batching operation, custom curve linearization.

L80000FR	...	...	84K0404	270.00
L80010FR	...	Isolated 0-20mA and 0-10V	84K0405	360.00
L80100FR	Relay	...	73K4854	350.00

CABLE ACCESSORIES

Mfg. part no. CBL01 connects the meter directly to a PC RS232 port. Mfg. part no. CBL02 is used on computers without an RS232 port but have a USB port.

Mfg. Part No.	Cable Length (ft.)	Connector Type A	Connector Type B	Stock No.	Price Each
CBL01	7	DB9 Male	RJ11	87K0754	19.00
CBL02	2	DB9 Male	3 Terminal Plug	87K0755	39.00

(88534)

UNIVERSAL COUNTER/TIMER/TOTALIZER



Universal 6-digit 0.56" (14.22) LED display is a frequency meter, tachometer, rate meter, timer, or totalizer with RS-232 interface. 7MHz maximum frequency. Fast low-frequency measurements, such as power-line monitoring to 5-digit accuracy every 150 micro-seconds. Selection of operating mode, scaling and setpoints via front-panel push-buttons (with selectable hardware lockout). Units capable of handling TTL, NPN, PNP sensors, contact closures and passive magnetic pickups (not included). Fit 1/8 DIN panel cutout. Screw terminals for signal and power. 115VAC, 50/60Hz or non-isolated 9.5-32VDC power optional. Relay output provides dual 10A relays for ON/OFF control or alarm applications, with latched or unlatched modes.



➔ CONTINUED ➔

COUNTERS – 1/8 DIN • COUNTERS ELECTROMECHANICAL

UNIVERSAL COUNTER/TIMER/TOTALIZER (CONT.)

P5000 SERIES WITH NEMA4-RATED INFINITY STYLE BEZEL

Mfg. Part No.	Signal Input	Relay Output	Analog Output	Stock No.	Price Each
P5001/E	±10mV to 240Vrms, 1-Channel-Pulse	No	No	71C8326	475.00
P5004	1-5V, 0-10V, 4-20mA, 1-Channel-Analog	No	No	94B3715	515.00

P6000 SERIES WITH FRONT-REMOVABLE LENS ASSEMBLY

Mfg. Part No.	Signal Input	Relay Output	Analog Output	Stock No.	Price Each
P6000A	TTL/5V CMOS-level, 2 Channel	No	No	89F1797	380.00
P6021A/E	±10mV to 240Vrms, 1 Channel	Yes	No	89F1799	555.00
P6031A	±10mV to 240Vrms, 1 Channel	No	Yes	28M8311	630.00

(2303)

INFCTRA SERIES 1/8 DIN 6-DIGIT RATEMETER/TOTALIZER

NEW TECHNOLOGY

NEWPORT®

- Measures Rate from 0.5Hz to 30kHz
- Totalizes Up or Down from -99999 to 999999
- Optional HI and LO Setpoints for Control or Alarm
- 1/8 DIN Case with 5 Programming Keys
- Functions: rate and totalize selected by menu
- Display: 6-digit, 7-segment red LED display
- Universal Input choices, selectable by dip switches



INFCTRA Series ratemeter/totalizer offers user programming via 5 front panel keys. Programs are stored in non-volatile memory. Selectable sensor excitation of 12.5VDC @ 50mA, 8.2VDC @ 40mA or 5.0VDC @ 30mA. Wide selection of signal inputs such as TTL compatible with protection to 25VDC, low level (25mVrms), high level signals protected to 115VAC, NAMUR or open collector PNP or NPN. Accuracy: 0.01%. Power: 115VAC. Other configurations are available; go online or call.

Mfg. Part No.	Description	Stock No.	Price Each
INFCTRA-0000-R	Ratemeter	96F6826	260.00
INFCTRA-0000-T	Totalizer	96F6832	260.00
INFCTRA-0100-R	Ratemeter, Dual Relay Output	96F6827	335.00
INFCTRA-0100-T	Totalizer, Dual Relay Output	96F6833	335.00
INFCTRA-0110-R	Ratemeter, Dual Relay Output, Analog retransmission output	96F6830	435.00

(2352)

MODEL 88 PROGRAMMABLE CONTROLLER/INDICATORS, TOTALIZERS, PRESET COUNTERS AND PRESET TIMERS

RoHS Compliant Available

REDINGTON COUNTERS INC.

UL CE CUL US



- NEMA 4X/IP56 sealed pane, RoHS compliant, UL, cUL Recognized, CE Compliant UL file# E19514
- Relay Module 200557-001S (2 form C, 5 amp relays) - not available on totalizer
- Serial Comm. (RS232, RS422, RS485)
- Backlit red display is default, reflective display available
- AC Power Module 20057-002S +90 VAC + 285 VAC, 50/60 Hz (unit is normally powered for +10 VDC to +32 VDC)

The Model 88 is a family of controller indicators, programmable counters, preset counters and preset timers that utilizes an 8-digit LCD. The backlit LCD provides 0.35" [9mm] red 7-segment characters. The LCD also displays a number of icons depending on the operating mode and condition. A reflective display option is also available. Also optional is 12VDC power supply that installs on the rear of the unit.

Indicator/Controller – 7 counting modes (Dual up counting, Preset of time, rate or count, Directional counting, 1,2,4x quadrature, Add/add counting, Add/subtract counting, Rate indication on count inputs), Analog ranges: 0 to 10 VDC or 4 to 20 mA (Prescaling), Elapsed timer function available for all modes of operation, Analog input/outputs optional. **Preset Counter** – 4 counting modes (Directional counting, 1,2,4x quadrature, Add/add counting, Add/subtract counting), 2 presets: reset to zero, reset to preset, Automatic, manual, or external reset. **Preset Timer** – Programmable for hours or seconds, Resolution :Hours – .0001 hrs, Seconds 1 msec, Add/subtract counting, 2 presets: reset to zero, reset to preset, Automatic, manual, or external reset. **Totalizer** – 5 counting modes (Dual up counting, Directional counting, 1,2,4x quadrature, Add/add counting, Add/subtract counting), User has the ability to prescale counts.

LCD PROGRAMMABLE INDICATOR/CONTROLLER

Mfg. Part No.	No. of Digits	Stock No.	Price
8800-0000	8	48M1325	118.70

LCD PROGRAMMABLE TOTALIZER

8803-0000	8	30M7595	89.00
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LCD PRESET COUNTER

8804-0000	8	05N0109	89.00
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LCD PRESET TIMER

8805-0000	8	05N0110	89.00
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(115442)

PRESET COUNTERS

UL CE

Simpson

The S660 series of counters are capable of handling count speeds of up to 20kHz (30kHz S661). Simple menu-driven programming features word prompts, not difficult codes. The rugged NEMA 4X case fits standard 1/8 DIN cutouts, and is equipped with large tactile buttons that can be pressed easily even when the user has gloves on. The counters feature a 6-digit LED display and 120VAC power. Optional features include quadrature inputs, two 5-amp mechanical relays and 12VDC excitation output @ 100mA (220VAC power upon request). **Mfg. Part No. S660** is an up/down, add/subtract totalizing counter, **mfg. part no. S661** is a rate counter, and **mfg. part no. S662** is a totalizer/batch counter.



UP/DOWN, ADD/SUBTRACT TOTALIZER (S660 SERIES)

Mfg. Part No.	Input	Relay/Excitation	Stock No.	Price Each
S660-1-1-0-0-0	Pulse Input	None/None	83F8782	191.91
S660-1-1-1-0-0	Pulse Input	One/None	83F8783	220.40
S660-1-1-2-0-0	Pulse Input	Two/None	83F7506	237.53
S660-1-1-2-1-0	Pulse Input	Two/12VDC	83F7507	267.62
S660-1-2-0-0-0	Quad Input	None/None	83F8780	214.48
S660-1-2-1-0-0	Quad Input	One/None	83F8781	242.97
S660-1-2-2-0-0	Quad Input	Two/None	83F7508	260.10
S660-1-2-2-1-0	Quad Input	Two/12VDC	83F7509	290.19

RATE (S661 SERIES)

S661-1-1-0-0-0	Pulse Input	None/None	83F7510	191.91
S661-1-1-1-0-0	Pulse Input	One/None	83F7511	220.40
S661-1-1-2-0-0	Pulse Input	Two/None	83F7512	237.53
S661-1-1-2-1-0	Pulse Input	Two/12VDC	83F7513	267.62
S661-1-2-0-0-0	Quad Input	None/None	83F7514	214.48
S661-1-2-1-0-0	Quad Input	One/None	83F7515	242.97
S661-1-2-2-0-0	Quad Input	Two/None	83F7516	260.10

TOTALIZER/BATCH (S662 SERIES)

S662-1-1-0-0-0	Pulse Input	None/None	83F7518	226.17
S662-1-1-1-0-0	Pulse Input	One/None	83F7519	254.66
S662-1-1-2-0-0	Pulse Input	Two/None	83F7520	271.78
S662-1-1-2-1-0	Pulse Input	Two/12VDC	83F7521	301.88
S662-1-2-0-0-0	Quad Input	None/None	83F7522	248.74
S662-1-2-1-0-0	Quad Input	One/None	83F7523	277.23
S662-1-2-2-0-0	Quad Input	Two/None	83F7524	294.35
S662-1-2-2-1-0	Quad Input	Two/12VDC	83F7525	324.44

(33380)

DYNAPAR BRAND MAX JR TACH 1 & 2 PROGRAMMABLE RATE CONTROLLERS

DANAHER INDUSTRIAL CONTROLS

Dynapar brand



Choose from two compact, economical models, both offering high-accuracy measurement techniques and simple programming. **Mfg. part no. MTJR1S00** MAXjr Tach 1 rate indicator/controller is ideal for basic rate or speed measurement functions. **Mfg. part no. MTJR2S00** MAXjr Tach 2 rate/ratio/time interval controller provides a choice of operating modes: rate of input A, as in the MAXjr Tach 1 model; ratio of two independent inputs A and B; and time interval, which can be the period of A or the elapsed time between inputs A and B; and time interval, which can be the period of A or the elapsed time between inputs A (start) and (stop). Both MAXjr Tach 1 and 2 models feature programmable 0.0001 to 99999 calibration high/low setpoint alarm capability with outputs and built-in diagnostics. Large 5-digit 0.56" (14.22) red LED display, 0.01% accurate time interval measurement and programmable decimal point position. Sealed NEMA-4 rated front panel with panel mounting in 1/8 D 1.78x3.56" (45.21x90.42) cutout; 5.68" (144.27) depth. 115/230VAC, 50/60Hz.

Mfg. Part No.	Description	Stock No.	Price Each
MTJR1S00	MAXjr Tach Rate Controller	84F765	692.08
MTJR2S00	MAXjr Tach Rate/Ratio/Time/Controller	04F804	797.00

(2920)

Huge Expanded Selection of Semiconductors

Go online to find new technologies and proven solutions from world-class and specialist suppliers.

(148843)

COUNTERS – 1/8 DIN • COUNTERS – ELECTROMECHANICAL

DYNAPAR BRAND MAX® JR. ELECTRONIC TOTALIZING AND PRESET COUNTERS



Dynapar brand

Mfg. part no. MCJR1500 8-digit totalizing counter features bidirectional operation, with ± polarity indicator and reference preset function. Mfg. part no. MCJR2500 is 5-digit predetermining counter for cut-to-length, filling, batching, locating, and similar applications. Features two presets with programmable output action. Mfg. part no. MCJR3500 similar to MCJR2500 but includes additional function that serves either as totalizer preset-batch counter. Programmable features include independent calibration and decimal point location for count and rate, allowing totals and speed to be displayed in different units, such as: totals in feet; speed in RPM. All models have bright, high-contrast red LED displays, NEMA-4 front panel rating with panel mounting in 1/8 DIN cut-out. Calibrator scales input signal for display in engineering units. Selectable decimal point positioning. Non-volatile memory retains count and program during power loss. 115/230VAC, 50/60Hz.

Mfg. Part No.	Description	Stock No.	Price Each
MCJR1500	Count 1 Totalizing Counter	50F2679	635.11
MCJR2500	Count 2 Predetermining Counter	87F1084	744.01

(10625)

Y-RMF AND Y-MF HEAVY-DUTY TOTALIZING COUNTERS



32651-400



31083-403

Mfg. part nos. 32651-400 and 32654-400 are shaded pole electric counters with straight AC operation. They feature a non-rectified, shaded pole coil designed to withstand transient and high voltage spikes. This, combined with a simplified, hinged escapement drive, also eliminates the possibility of miscounts and greatly adds to the life of the counter. Tallies at speeds up to 750 cpm. Mfg. part nos. 31155-402, 31066-416 and 31083-403 provide accurate counts through a wide range of speeds up to 1000 cpm. Feature fast, silent DC electromagnetic drive with built-in, higher capacity rectifier for dependable AC operation. Moving parts never need lubrication under normal operating conditions. 0.188"H (4.78) 6-digit readout. 115VAC operating voltage with 7 watt count coil. Available with knob reset in base, panel mounting, or panel mount key reset. Panel models fit 3.703W x 1.250H x 2.469"D (94.06 x 31.75 x 62.71) opening. UL recognized.

Mfg. Part No.	Reset	Mounting	Stock No.	Price Each
				1-4
31155402	Knob	Base	87F6150	187.46
31066416	Knob	Panel	87F6149	215.22
31083-403	Key	Panel	87F6151	261.23
32651400	Knob	Base	18C1644	202.71
32654400	Key	Panel	94F3855	276.00
32653400	Knob	Panel	94F3854	219.75

(2695)

MINIATURE ELECTRIC COUNTERS



Compact panel-mount 120VAC counters feature 0.188"H (4.78) 4- and 6-digit readout and tamperproof sealed window. Stainless steel self-lubricating shaft, nylon pinions and synchronous electromagnetic drive assures accuracy and long-life. Speed: up to 1000 cpm. Power: count coil 3 watts. Available non-reset or pushbutton reset. Includes 10" (254) wire leads.



Mfg. Part No.	Description	Cut-Out	Stock No.	Price Each
				1-4
41314402	4-Digit Panel Mount, 24VDC, Pushbutton Reset	1.72W x 1.11"H	94F3839	125.52
41314-406	4-Digit Panel Mount, 120VAC, Pushbutton Reset	1.72W x 1.11"H	94F3858	151.93
41346406	6-Digit Panel Mount, 120VAC, Non Reset	1.72W x 1.11"H	94F7375	109.45

(2694)

PD-Q AND PD-ER PREDETERMINED ELECTRIC COUNTERS



True subtracting devices with easy pushbutton operation for both predetermined count settings and reset. Units subtract one count for each contact closure or impulse and actuate a 4A, S.P.D.T. 250VAC switch when zero is reached. Return to predetermined number when reset and are immediately ready to control next lot or branch. 0.188"H (4.78) 5-digit readout. Count speed: 1000 cpm. Operates on 120VAC, 9 watts. Stainless steel shaft. Mfg. part no. 41625-406 has electric reset for control flexibility and remote operation. Both models fit 2.718W x 1.593"H (69.04 x 40.46) panel cut-out.

Mfg. Part No.	Reset	Mounting	Stock No.	Price Each
				1-4
41433406	Pushbutton	Panel	94F3864	539.70
41625406	Electric	Panel	94F3847	643.98

(2696)

MODEL 63 DUAL LCD TOTALIZERS, HOUR METERS AND TACHOMETERS



- NEMA 4/4X, 12, & IP66 rated when used with the appropriate gasket
- 15 year battery
- Switch (no voltage). 3-30VDC, 20-300VAC, 10-300VDC input choice



Totalizer – Features include 8 LCD digits, single input up counting, up/down counting. Tachometer/Frequency Indicator – The 5 digit Tachometer/frequency indicator provides high performance and additional options that add significant functionality to the unit. Hour Meter – Electronic Hour Meter has 8 LCD digits. 40Hz input speed available; go online or call.

LCD TOTALIZERS

Mfg. Part No.	No. of Digits	Description	Stock No.	Price Each
6300-0500-0000	8	Dry Contact Input	05N0096	51.80
6300-1500-0000	8	3-30VDC Input	05N0097	51.80
6300-2500-0000	8	10-300VDC/20-300VAC Input	05N0098	51.80

LCD HOUR METERS

6320-0500-0000	8	Dry Contact Input	05N0099	45.40
6320-1500-0000	8	3-30VDC Input	05N0100	45.40
6320-2500-0000	8	10-300VDC/20-300VAC Input	05N0101	58.90

LCD TACHOMETER/FREQUENCY INDICATORS

6330-0500-0000	5	Dry Contact Input	05N0102	65.15
6330-1500-0000	5	3-30VDC Input	05N0103	65.15

(115441)

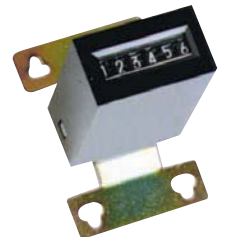
ELECTROMECHANICAL COUNTERS



Model 10 Panel Mount



Model 10 Base Mount



Model 44



P2-4816



Model 49

Model 10 6-figure electromechanical counter with heavy-duty rectifier, transient protection, convenient reset, 1000 cpm capability. Mfg. part no. 2-1006 dimensions in inches: 3.68(H) x 1.74(W) x 2.51(D). Panel cutout in inches: Mfg. part no. P21006, 3.85 x 1.75; Mfg. part no. P32-1206, 4.88 x 1.75. 8" wire leads, 22AWG. UL recognized, CSA certified, CE compliant. 7-figure counters available; go online or call.

Mfg. Part No.	Voltage	Mount	Reset	Stock No.	Price Each
					Each
2-1006	115VAC	Base	Manual	57F3501	128.10
P2-1006	115VAC	Panel	Manual	57F3502	141.35
P32-1026	115VAC	Panel	Lock & Key	44F3109	186.90

CONTINUED

COUNTERS – ELECTROMECHANICAL • COUNTERS – LARGE DISPLAY

ELECTROMECHANICAL COUNTERS (CONT.)

Mfg. Part No.	Voltage	Mount	Reset	Stock No.	Price Each
Model 44 rugged, low cost 6-figure non-resettable electromechanical counter in a variety of mounting styles. 0.18" high characters. Dimensions in inches: 1.4(H) x 0.8(W) x 2.4(D). 10" wire leads, 22AWG. UL recognized, CE compliant.					
● R8-4416	24VDC	Behind Panel		27B4547	24.70
● RV2-4416	115VAC	Combination		71M0095	49.25
● RV8-4416	24VDC	Combination		44F3126	26.40
● RV23-4416	115VDC	Combination		71M0096	52.40

Model 48 compact, economical 6-figure non-resettable electromechanical counter designed for general purpose industrial and commercial counting applications. Dimensions in inches: Panel mount, 1.80 (H) x 1.80 (W) x 2.25 (D); base mount, 2.96(H) x 1.63(W) x 2.25(D). 12" wire leads, 22AWG. UL recognized, CSA certified, CE compliant.

● P2-4816	115VAC	Panel		90F1624	44.20
● P3-4816	24VAC	Panel		27B4538	53.50
● P8-4816	24VDC	Panel		27B4540	40.85
● V2-4816	115VAC	Base		51M9084	43.00
● V8-4816	24VDC	Base		27B4554	40.05

Model 49 4- or 6-figure panel mount electromechanical counter with pushbutton reset. 0.16" high characters. **Mfg. part no. 4904** panel cutout in inches: 1.46(H) x 1.01(W). **Mfg. part no. 4906** panel cutout in inches: 2.00(H) x 1.01(W). 10" wire leads, 22AWG. UL recognized, CE compliant. Other mounting styles available, go online or call.

Mfg. Part No.	Voltage	Mount	Figures	Stock No.	Price Each
● P2-4904	115VAC	Panel	4	48M0898	48.35
● P8-4904	24VDC	Panel	4	48M0900	44.70
● P2-4906	115VAC	Panel	6	48M0899	60.05
● P8-4906	24VDC	Panel	6	48M0901	55.95

(2926)

ECONOMICAL ELECTRIC COUNTERS



7790 series (6-digit, nonreset) and **series 7791** offer excellent performance and reliability characteristics for a minimal price. Body size: 1.0" x 1.3". Capable of speeds up to 600 counts/minute. UL recognized, CSA certified. Its count coil can be continuously energized without damage. 115VAC, 5W. Other AC and DC models also available; go online or call.

NONREST

Mfg. Part No.	Description	Stock No.	Price Each
0779086-001	Base Mount	87F1086	48.96
0779086-201	Panel Mount	99F6253	50.28
0779086-401	Rear Mount	01B3985	48.96

PUSH-BAR RESET

0779185-201	Panel Mount	01B3990	63.51
0779185-401	Rear Mount	01B3993	59.54

(52082)

EPAX, LPAX AND MPAX LARGE DISPLAYS



EPAX AND LPAX DISPLAYS

Versatile displays that can increase productivity by offering the plant floor or production area a large visual display of their status. Supply voltage: 85-250VAC. 5-digit displays accept various analog inputs through the use of input modules (MPAX) which allow the unit to adapt to almost any application. 6-digit displays accept various digital inputs through the use of input modules (MPAX) which allow the unit to adapt to almost any application. NEMA 4X/IP65 casing. Additional plug-in cards; ordered separately below, can add alarms, analog output and communications/bus capabilities.

➔ CONTINUED ➔

EPAX, LPAX AND MPAX LARGE DISPLAYS (CONT.)

Mfg. Part No.	No. of Digits	Digit Height	Readable Distance (ft.)	Stock No.	Price Each
● EPAX0500	5	4	180	84K7449	498.00
● EPAX0600	6	4	180	14P9745	535.00
● LPAX0500	5	1.5	70	14P9748	276.00
● LPAX0600	6	1.5	70	84K7466	290.00
● LPAXCK00	6	1.5	70	84K7464	290.00

MPAX INPUT MODULES

Serve as the input to the EPAX or LPAX display. There are several different modules to cover a variety of inputs. The MPAX module provides input scaling which allows the EPAX and LPAX to display most any engineering unit. Once the MPAX is inserted into the EPAX or LPAX, the unit has the same functions and capabilities of the PAX Series intelligent panel meters. A full set of PAX programming instructions are included with the MPAX module. NOTE: The MPAX provides the operating power for the EPAX or LPAX display.

MPAX MODULES INPUT RANGES

Signal Type	Input Ranges
Universal DC Inputs	DC Voltage: 200mV, 2V, 20V, 300V DC Current: 200µA, 2mA, 20mA, 200mA, 2A Resistance: 100Ω, 1000Ω, 10KΩ
Process Inputs	0-20mA or 0-10VDC
Temperature Inputs	Thermocouples: T, E, J, K, R, S, B, N, C, or Custom Scaling RTDs: 100Ω Pt (platinum) 385/392, 120Ω Nickel 672, or 10Ω Copper 427
True RMS AC Voltage/Current	AC Voltage: 200mV, 2V, 20V, 300V AC Current: 200µA, 2mA, 20mA, 200mA, 5A

MPAX MODULES FOR EPAX AND LPAX 5-DIGIT DISPLAYS (ANALOG UNITS)

Mfg. Part No.	Signal Type	For Use With Display		Stock No.	Price Each
		EPAX	LPAX		
● MPAXD000	Universal DC Inputs	EPAX0500	LPAX0500	84K7470	221.00
● MPAXP000	Process Inputs	EPAX0500	LPAX0500	14P9798	211.00
● MPAXT000	Temperature Inputs	EPAX0500	LPAX0500	84K7476	211.00
● MPAXH000	True RMS AC Voltage/Current	EPAX0500	LPAX0500	84K7471	286.00

MPAX MODULES FOR EPAX AND LPAX 6-DIGIT DISPLAYS (DIGITAL UNITS)

● MPAXI000	Count/Rate/Serial Slave	EPAX0600	LPAX0600	14P9797	240.00
● MPAXC000	Count	EPAX0600	LPAX0600	84K7469	180.00
● MPAXR000	Rate	EPAX0600	LPAX0600	14P9799	180.00
● MPAXCK00	Clock/Timer	EPAX0600	LPAXCK00	14P9796	180.00
● MPAXT000	Timer	EPAX0600	LPAXCK00	14P9800	138.00

OPTIONAL PLUG-IN CARDS

Mfg. Part No.	Description	Stock No.	Price Each
● PAXCDS10	Dual Setpoint Relay Output Card	84K7483	37.00
● PAXCDS20	Quad Setpoint Relay Output Card	84K7484	48.00
● PAXCDS40	Quad Setpoint Sourcing Open Collector Output Card	84K7485	37.00
● PAXCDC10	RS485 Serial Communications Output Card with Terminal Block	84K7477	48.00
● PAXCDC20	RS232 Serial Communications Output Card with Terminal Block	84K7478	48.00
● PAXCDC30	DeviceNet Communications Card	84K7479	116.00
● PAXCDC40	Modbus Communications Card	84K7480	58.00
● PAXCDC50	Profibus-DP Communications Card	84K7481	143.00
● PAXCDL10	Analog Output Card	84K7482	74.00

(88706)

LD LARGE DISPLAYS AND TIMER AND CYCLE COUNTERS



- 2.25" or 4" high red LED digits
- Readable up to 130ft (2.25" high models) or 180ft (4" high models)
- Supply voltage: 85-250VAC/11-16VDC
- Constructed of NEMA 4 enclosure in lightweight aluminum



LARGE DISPLAYS

Versatile displays that can be configured as a single or dual counter with rate indication, scaling, serial communications and a relay output. The 6-digit programmable model has two signal inputs and a choice of eight different count modes including bi-directional, quadrature and anticoincidence counting as well as a dual counter mode. When programmed as a dual counter, each counter has separate scaling and decimal point selection. The meter display can be toggled either manually or automatically between the count and rate values. Programmable models come with 5A SPDT relay output and jumper selectable RS232 or RS485 communications.

Mfg. Part No.	Function	Output Signal	No. of Digits	Digit Height (in.)	Stock No.	Price Each
● LD200400	Counter	...	4	2.25	84K7457	356.00
● LD200600	Counter	...	6	2.25	84K7459	400.00
● LD400400	Counter	...	4	4	84K7461	500.00
● LD400600	Counter	...	6	4	84K7463	585.00
● LD2006P0	Programmable Counter/Rate Indicator	Relay	4	2.25	84K7458	464.00
● LD4006P0	Programmable Counter/Rate Indicator	Relay	6	4	84K7462	635.00

➔ CONTINUED ➔

COUNTERS – LARGE DISPLAY & MECHANICAL STROKE • METERS 1/8 DIN – AC VOLTS & AC/DC VOLTS

LD LARGE DISPLAYS AND TIMER AND CYCLE COUNTERS (CONT.)

Mfg. Part No.	Function	Output Signal	No. of Digits	Digit Height (in.)	Stock No.	Price Each
LD2T06P0	Timer/Cycle Counter	Relay	6	2.25	14P9746	450.00
LD4T06P0	Timer/Cycle Counter	Relay	6	4	84K7460	635.00

Versatile displays that function as an elapsed timer or preset timer, with full-featured programmability. Includes a built-in cycle counter, 5A SPDT relay output and serial communications capability, two signal inputs and eight input operating modes. These modes provide level active or edge triggered stop/start operation. The timer features 18 selectable timer ranges. Built-in cycle counter can be linked to timer operation to count timing cycles, or function as a totally independent counter, accepting count speeds up to 500Hz. The display can be toggled either manually or automatically between the timer and counter values. DIP switches are used to configure the inputs for current sinking (active low) or current sourcing (active high) operation. Setpoint output can be assigned to the timer or counter value, and configured to a variety of control and alarm requirements. The meter also includes jumper selectable RS232 or RS485 serial communications.

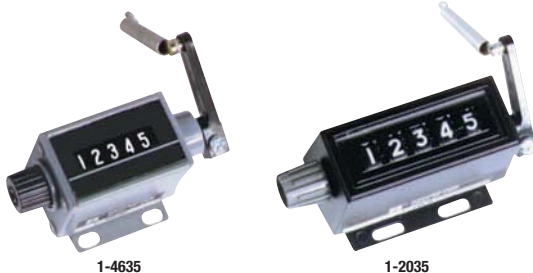
TYPE 5H11R HEAVY-DUTY MECHANICAL STROKE COUNTER

High-speed, heavy-duty unit delivers 800 counts per minute. Features 5-digit readout, right-hand lever drive, wing nut reset, stainless steel shaft, and oil-less bearings. Steel plate adjusts for bottom or back mounting.



Mfg. Part No.	Description	Stock No.	Price Each
40205400	Heavy-duty mechanical stroke counter	87F6146	217.12

MECHANICAL STROKE COUNTERS



46 series mechanical stroke counter for limited space applications in office, vending and other small machinery. Speed: 1000cpm. Right hand, 5-digit, manual reset. Operating lever and spring assembly. Shaft diameter: 0.156". 20 series mechanical stroke counter for use in machinery. Speed: 1000cpm. Right hand, 5-digit, manual reset. With operating lever and spring assembly. Shaft diameter: 0.125".

Mfg. Part No.	Description	Stock No.	Price Each
1-4635	5 Figures, 0.19" H., .81" x 1.20" Mounting Slots	57F3516	44.90
1-2035	5 Figures, 0.19" H., .83" x 1.20" Mounting Slots	67P3135	60.80

SMALL STROKE/ REVOLUTION COUNTERS

Small flange mount, mechanical totalizers with large figure size. External and internal parts are corrosion-resistant for trouble-free and accurate performance indoors and out. Easy-to-see, 5-digit display feature high-contrast white-on-black numerals and stainless steel drive shaft. 7272 series is available with left- or right-hand ratchet drives.



Mfg. Part No.	Description	Stock No.	Price Each
0727215-001	Left-Hand, Clockwise	81F2971	151.20
0727225-001	Left-Hand, Counter Clockwise	81F2972	159.08
0727245-001	Right-Hand, Clockwise	81F2974	159.08
727235-001	Right-Hand, Counter Clockwise	81F2973	159.08

AC AMMETERS



3 1/2-digit units feature bright 0.56" (14.22) LED displays, screw terminal barrier strip for power and signal connections, operate on 120VAC, fit standard 1/8 DIN panel cut-out. Decimal point programmable at barrier strip. Factory-calibrated precision op-amp rectifier circuit to read true RMS values of sinusoidal waves. 5A signal input range for direct connection to current transformer with 5A secondary without a step-down transformer.



Mfg. Part No.	Display Range	Stock No.	Price Each
Q2000-DCR7-1	1-10/100/1000	89F1835	341.00
Q2000-DCR7-3	0-20/200	89F1823	335.50
Q2000-DCR7-4	0-30/300	92B9012	255.75
Q2000-DCR7-5	0-40/400	95B0627	255.75
Q2000DCR7-6	0-50/500	89F1826	341.00
Q2000-DCR7-7	0-60/600	04R7903	275.00
Q2000-DCR7-8	0-80/800	04R7904	275.00

AC POWER-LINE MONITORS



3 1/2-digit units feature bright 0.56" (14.22) LED displays, screw terminal barrier strip for power and signal connections, operate on 120VAC and fit standard 1/8 DIN panel cut-out. Decimal point programmable at barrier strip. 201AN-AC series AC power-line monitors use factory-calibrated half-wave rectifier to read RMS values of sinusoidal signals. Provide AC voltmeter performance for AC ranges.



Mfg. Part No.	Signal Input Range, VAC	Display Range	Stock No.	Price Each
201AN-AC5	20-199.9	±1,999	89F1833	180.00
201AN-AC6	20-650	±1,999	89F1834	180.00

DC VOLTMETERS



201AN



2001

Factory calibrated for DC input range indicated. Bright, 0.56" (14.22) LED display. Decimal point programmable at connector. 201AN and 2001 series are 120VAC and fit standard 1/8 DIN panel cutout; screw-terminal barrier strip standard for signal and power. 215 series are 5VDC and fit half-height 1/8 DIN panel cutout; solder-tab board edge connector standard. Display range is 3 1/2-digits (±1,999 counts) or 4 1/2-digits (±19,999 counts).



215

Mfg. Part No.	Signal Input Range, VDC	Display Range	Operating Voltage	Stock No.	Price Each
201AN-2,D4	0.1999	±1,999	120VAC	89F1836	207.69
201AN-3D4	1.999	±1,999	120VAC	89F1837	207.69
201AN-4,D4	19.99	±1,999	120VAC	89F1838	207.69
201AN-5,D4	199.9	±1,999	120VAC	89F1839	207.69
2001A-3,D4	1.9999	±19,999	120VAC	89F1840	259.53
2001A-4,D4	19.999	±19,999	120VAC	89F1841	259.53
2001A-5,D4	199.99	±19,999	120VAC	89F1842	259.53
215-3	1.999	±1,999	5VDC	89F1830	122.55
215-4	19.99	±1,999	5VDC	89F1831	122.55

New products added weekly

See the newest products, technologies and suppliers on our website.

METERS 1/8 DIN – MULTI-FUNCTION

DIGITAL MULTI PANEL METERS

Just Added

Autonics
Sensors & Controllers



- Max. measuring input specification: 500VDC, 500 VAC, DC 5A, AC 5A
- Max. display range: -1999 ~ 9999
- High/Low scale function
- AC frequency measurement function: 0.1 ~ 9999 Hz
- Various functions: Monitoring function for max. and min. display value function, display cycle delay function, zero function, high display correction function, current output scale function
- Wide range of power supply: 100 - 240 VAC

Mfg. Part No.	No. of Digits	Measuring Input	Output Type	Stock No.	Price Each
MT4W-AA-4N	4	AC Amperage	None - Indication Only	10R5269	73.82
MT4W-AV-4N	4	AC Voltage	None - Indication Only	10R5270	73.82
MT4W-DA-4N	4	DC Amperage	None - Indication Only	10R5271	69.47
MT4W-DV-4N	4	DC Voltage	None - Indication Only	10R5272	69.47

(148670)

MODULAR DIGITAL PANEL METERS



BD35, BD40, BD60 Displays

BP Power Supply Card

BQ Input Card

Output Cards

Just Added

- 1/8 DIN, 3.5, 4 or 6 digit digital indicators and controllers
- Selectable display color on DB40: red, amber or green
- Dual (analog/digital) backlit LCD display on DB60
- Modular design facilitates many different inputs/outputs
- Rugged IP67 / NEMA4x splash-proof front cover
- AC/DC voltage/current, frequency, tachometer, counter, temperature, rate and resistance inputs
- T_{max} AC current and voltage measurements
- Microprocessor-based design
- Up to four optional alarm outputs
- Optional analog, excitation, serial output
- MODBUS, JBUS communication protocol

UDM series μ P-based indicators/controllers feature a rugged 1/8 DIN housing, rated IP67 / NEMA4x. The UDM40's unique display can be programmed in one of three colors (red, amber or green), or it can be programmed to display in a different color should an alarm setting be eclipsed, (i.e., green: OK, amber: caution, red: trouble.) Indicator's features include min/max recording, data hold, display/input range scaling and password protection. When a power supply card and multirange configurable input card are slid into a BD type display, a UDM indicator is the end result. Output cards are easily inserted into the back of the UDM indicator, thus making them controllers. It is possible to obtain one or two relay output(s) (not both) and/or a proportional analog or excitation output (not both); output cards are listed separately at the bottom of this page. Controllers feature up to four alarms, with adjustable hysteresis, delay and high/low/input fault alarms. All parameter settings are controlled by the front keypad via easy-to-use menu-driven format. 120VAC supply; other voltages are available.

DISPLAYS - A REQUIRED COMPONENT

Mfg. Part No.	Description	Max. Value	Stock No.	Price Each
BD35	3.5 digit, red display	1999	27K4038	126.00
BD40	4.0 digit, 3-color display	9999	27K4039	192.15
BD60	Dual 6.0 digit, backlit LCD display	999999	08P0908	207.00

➔ CONTINUED ➔

MODULAR DIGITAL PANEL METERS (CONT.)

POWER SUPPLY CARDS - A REQUIRED COMPONENT

Mfg. Part No.	Description	Supply Voltage Range	Stock No.	Price Each
BPH	Universal Supply Card	90-260 VAC/DC	27K4045	63.00
BPL	Universal Supply Card	18-60 VAC/DC	27K4046	93.45

PRE-CALIBRATED INPUT CARDS - A REQUIRED COMPONENT

Mfg. Part No.	Description	Input Range	Stock No.	Price Each
BQHSX	High signal input	-200mA to +5A -20V to +500V AC/DC	05M6312	144.90
BQLSX	Low signal output	-200 μ A to +20mA -200mV to +20V AC/DC	27K4049	144.90
BQLSE	Low signal input with excitation output	-200 μ A to +20mA -200mV to +20V AC/DC	05M3950	196.35
BQTF1	Tachometer/freq. input	0.001Hz to 50kHz DC	08P0916	197.00
BQTF2	Tachometer/freq. input	0.001Hz to 50kHz AC	08P0917	172.00
BQTRX	Ohm/temperature input	0-20K Ω , J, K, E, S & T RTDs Pt100, Pt250, Pt500, Pt1000, & Ni100 RTDs	27K4050	176.40

PRE-CALIBRATED OUTPUT CARDS - OPTIONAL COMPONENT

Mfg. Part No.	Description	Output	Stock No.	Price Each
BOR1	One relay output	One 8A SPDT	05M3935	49.41
BOR2	Two relay outputs	Two 8A SPDT	05M3936	76.26
BOR4	Two relay outputs and two transistor outputs	Two 8A SPDT and two 100mA Transistor	27K4043	108.48
BOR5	Four relay outputs	Four 5A SPST	05M3938	121.37
BRSY	Serial output card	RS232	05M3954	168.62
BRSX	Serial output card	RS485	05M3953	168.62
BOAV	Analog output module	0-20mA or 0-10VDC	05M3934	138.55

(84547)

LAUREATE™ CURRENT, VOLTAGE, STRAIN GAGE AND LOAD CELL PANEL METERS



- 0.2, 2, 20, 200, 300V and 600V ranges
- 2, 20, 200mA and 5A ranges
- 4 1/2 digit resolution
- 1G Ω input impedance on 200mV and 2V scales
- Field scalable from front panel to \pm 99,999 for use with external current shunts
- Up to 60 conversions per second
- Selectable adaptive digital filter



Supply voltage: 95-240VAC \pm 10% and 95-300VDC \pm 10%, or 10-34VAC and 10-48VDC. Concurrent slope conversion allows up to 60 conversions per second while integrating the signal over a full power cycle. Red or green LEDs. 1/8 DIN case meets NEMA 4X (IP65) standards. All ranges factory calibrated. 99.99% full scale accuracy. Peak value display. Selectable fixed zero or active least significant digit. 5, 10 or 24VDC sensor excitation supply. External controls for reset, meter hold and decimal points. Panel meters have a DC signal conditioner board, high accuracy, high read rate and isolated output options. Can be used with external shunts. Selectable signal filtering: unfiltered selection, batch average filter or adaptive moving average filter which provides a choice of 8 time constants from 80ms to 9.6s. Choice of isolated plug-in options for control and computer interface: dual relays, analog output, serial communications, parallel BCD output, low voltage AC and DC power available; go online or call. UL listed, CE certified.

AC AMMETERS

Mfg. Part No.	Signal Input Current	Output Type	Stock No.	Price Each
L20000RMA4	5.000 A	...	84K0376	245.00
L20100RMA4	5.000 A	Relay	84K0394	325.00

AC MILLIVOLTMETERS

Mfg. Part No.	Signal Input Voltage	Output Type	Stock No.	Price Each
L20000RMV1	200.00 mV	...	84K0377	245.00
L20100RMV1	200.00 mV	Relay	84K0395	325.00

AC VOLTMETERS

L20000RMV4	200.00 V	...	84K0378	245.00
L20100RMV4	200.00 V	Relay	84K0396	325.00
L20000RMV5	600.0 V	...	84K0379	245.00
L20100RMV5	600.0 V	Relay	84K0397	325.00

DC MILLIAMMETERS

Mfg. Part No.	Signal Input Current	Output Type	Stock No.	Price Each
L20000DCA1	\pm 2.0000 mA	...	84K0367	210.00
L20100DCA1	\pm 2.0000 mA	Relay	84K0385	290.00
L20000DCA3	\pm 200.00 mA	...	84K0368	210.00
L20100DCA3	\pm 200.00 mA	Relay	84K0386	290.00

DC AMMETERS

L20000DCA4	\pm 5.000 A	...	84K0369	210.00
L20100DCA4	\pm 5.000 A	Relay	84K0387	290.00

➔ CONTINUED ➔

METERS 1/8 DIN – MULTI-FUNCTION

LAUREATE™ CURRENT, VOLTAGE, STRAIN GAGE AND LOAD CELL PANEL METERS (CONT.)

DC MILLIVOLTMETERS

Mfg. Part No.	Signal Input Current	Output Type	Stock No.	Price Each
L2000DCV1	± 200.00 mV	...	84K0370	220.00
L20100DCV1	± 200.00 mV	Relay	84K0388	300.00

DC VOLTMETERS

L2000DCV2	± 2.0000 V	...	84K0371	210.00
L20100DCV2	± 2.0000 V	Relay	84K0389	290.00
L2000DCV3	± 20.000 V	...	84K0372	210.00
L20100DCV3	± 20.000 V	Relay	84K0390	300.00
L2000DCV4	± 200.00 V	...	84K0373	210.00
L20100DCV4	± 200.00 V	Relay	84K0391	290.00
L2000DCV5	± 600.0 V	...	84K0374	220.00
L20100DCV5	± 600.0 V	Relay	84K0392	290.00

DC STRAIN GAGE DC MILLIVOLTMETERS WITH SCALABLE DISPLAY

L2000SG	0-200 mV	...	84K0381	210.00
L20100SG	0-200 mV	Relay	84K0398	290.00

DC LOAD CELL MILLIVOLTMETERS

L2000WM	0-20 mV	...	84K0383	275.00
L20100WM	0-20 mV	Relay	84K0399	345.00

DC PROCESS CONTROLLERS

Mfg. Part No.	Signal Input Current	Scalable Display	Retransmit Input	Display Alarm Type	Stock No.	Price Each
L20000P	4-20 mA	0-100.0	...	...	84K0375	210.00
L20010P	4-20 mA	0-100.0	Isolated 0-20mA and 0-10V	...	84K0384	300.00
L20100P	4-20 mA	0-100.0	...	Relay	84K0393	290.00
L20110P	4-20 mA	0-100.0	Isolated 0-20mA and 0-10V	Relay	84K0400	380.00

CABLE ACCESSORIES

Mfg. part no. CBL01 connects the meter directly to a PC RS232 port. Mfg. part no. CBL02 is used on computers without an RS232 port but have a USB port.

Mfg. Part No.	Cable Length (ft.)	Connector Type A	Connector Type B	Stock No.	Price Each
CBL01	7	DB9 Male	RJ11	87K0754	19.00
CBL02	2	DB9 Male	3 Terminal Plug	87K0755	39.00

(88554)

ILD SERIES BIG DISPLAYS AND CONTROLLERS

NEW TECHNOLOGY

NEWPORT



The BIG display features big bright 2.3" (57.2) or 4.0" (101.6) LED digits that can be programmed to change colors between red, amber and green at any setpoint or alarm point. The changes in color are quickly seen from a distance and equipment operators can intuitively react to changing conditions. The BIG display offers a wide assortment of signal inputs for process (DC) voltage and current, thermocouples, RTDs, strain gage, AC voltage and current, and frequency/pulse. The ethernet BIG display can display data transmitted via serial or TCP/IP communication from a computer or from other devices which transmit ASCII data via RS-232, RS-422 or RS-485. Optional outputs include SPDT relays for alarm or full PID control, isolated analog output, and RS-232/422/485 serial communications and MODBUS. The BIG display can be mounted flush in a panel or surface mounted with the included brackets and features full NEMA 4/IP65 protection. Available with 2 output relays; go online or call.

Mfg. Part No.	Description	Stock No.	Price Each
ILD24-UTP/N	Big Display (2.25" LED) 4-Digit Universal Temp/Process Monitor	02E2615	977.85
ILD24-SP/N	Big Display (2.25" LED) 4-Digit Universal Strain	02E2613	977.85
ILD24-FP/N	Big Display (2.25" LED) 4-Digit Frequency/Pulse Totalize Input, RS-485 output	02E2611	954.00
ILD44-UTP/N	Big Display (4" LED) 4-digit Universal/ Process Monitor	02E2620	1223.85
ILD24-UTP-33/N	Big Display (2.25" LED) 4-Digit Universal/Process Controller w/2 Relay outputs	02E2614	1100.85
ILD24-EI/N	Big Display (2.25" LED) 4-Digit Remote Display w/ Ethernet, RS-485/422 input	10N9147	795.00
ILD26-EI/N,FS	Big Display (2.25" LED) 6-Digit Remote Display w/ Ethernet, RS-485/422 input	19K4907	1079.58
ILD44-UTP-33/N	Big Display (4" LED) 4-Digit Universal Temperature/ Process Controller w/2 Relay outputs	02E2619	1346.85
ILD44-SP/N	4" 4-digit Strain/Process Monitor	02E2618	1223.85

(73305)

PAX LITE DIGITAL PANEL METERS



- NEMA 4X/IP65 sealed front bezel
- Selectable decimal points
- Over-range indication
- 0.56" (14.2mm) LED readout

MODEL PAXLPV — PAX LITE PROCESS VOLTMETER

Wide span and offset scaling range (covers 1-5VDC process input). 24VDC excitation supply. Optional custom units overlay with backlight available; go online or call.

Mfg. Part No.	No. of Digits	Supply Voltage	Signal Input	Stock No.	Price Each
PAXLPV00	3½	85-250VAC	Selectable Voltage	84K7502	149.00

MODEL PAXLCL — PAX LITE CURRENT LOOP METER

Dual range, 4-20mA or 10-50mA. 24VDC excitation supply. Wide span and offset scaling range.

PAXLCL00	3½	85-250VAC	Selectable Current	84K7495	154.00
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MODEL PAXLI — PAX LITE CURRENT METERS

Multi-range units cover 199.9µA to 1.999A. Built-in scaling provisions. Auto zeroing circuits. Optional custom units overlay with backlight available; go online or call.

PAXLIA00	3½	115/230VAC	Selectable AC Current	84K7499	137.00
PAXLID00	3½	115/230VAC	Selectable DC Current	84K7500	105.00

MODEL PAXLIT — PAX LITE 5AMP AC CURRENT METER

5A AC current input. Built-in scaling provisions. Auto zeroing circuits. Optional custom units overlay with backlight available; go online or call.

PAXLIT00	3½	115/230VAC	Current	84K7501	154.00
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MODEL PAXLHV — PAX LITE AC VOLTAGE MONITOR

Auto zeroing circuit. Up to 600VAC max. Optional custom units overlay with backlight available; go online or call.

PAXLHV00	3	115/230VAC	Selectable Voltage	84K7498	154.00
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MODEL PAXLVD — PAX LITE VOLT METER

Multi-range units cover 199.9mV (AC or DC), 1.999 to 300V (AC or DC). Built-in scaling provisions. Auto zeroing circuits. Optional custom units overlay with backlight available; go online or call.

PAXLVD00	3½	115/230VAC	Selectable DC Voltage	84K7507	105.00
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MODEL PAXLSG — PAX LITE STRAIN GAGE METER/MILLIVOLT METER

High sensitivity, 10mV full scale. Wide range gain and offset adjustments. Built-in excitation 5 or 10VDC. Applicable as regular millivolt indicator (single-ended or differential input). Optional custom units overlay with backlight available; go online or call.

PAXLSG00	3½	85-250VAC	Strain Gage	84K7505	211.00
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MODEL PAXLTC — PAX LITE THERMOCOUPLE METER

Programmable TC type (T, E, J, K, R, S, B, N or mV scale). Conforms to ITS-90 standards. Selectable °F or °C. Programmable temperature offset. Programmable digital filtering enhances stability. Peak/valley (Hi/Lo) reading memory. Custom units overlay with backlight available; go online or call.

PAXLTC00	4	85-250VAC	Selectable Thermocouple	84K7506	192.00
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MODEL PAXLRT — PAX LITE RTD METER

Accepts standard 3-wire 100Ω RTD sensors (alpha = 0.00385 or alpha = 0.00392). Conforms to ITS-90 standards. Selectable °F or °C. Programmable temperature offset. Programmable digital filtering. Peak/valley (Hi/Lo) reading memory. Custom units overlay with backlight available; go online or call.

PAXLRT00	4	85-250VAC	Selectable Thermocouple and RTD	84K7503	192.00
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MODEL PAXLC — PAX LITE COUNTERS

Available in 6- or 8-digit versions. Accepts input count rates up to 25KHz. Bi-directional counting. Remote reset capability. Display store. Programmable scale factor.

PAXLC600	6	115/230VAC	Pulse	84K7496	143.00
PAXLC800	8	115/230VAC	Pulse	84K7497	159.00

MODEL PAXLR — PAX LITE RATE METER

Input rates up to 25KHz. Accepts a wide variety of sensors. Programmable scaling. Programmable update time.

PAXLR000	6	115/230VAC	Pulse	84K7504	148.00
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(88717)

PAX 1/8 DIN DIGITAL PANEL METERS



- Process, voltage, current, temperature and strain gage inputs
- 5- or 6-digit variable intensity 0.56" red sunlight readable display
- 16 point scaling for non-linear processes
- Four setpoint alarm outputs, communication and bus capabilities and retransmitted analog output (with option card)
- NEMA 4X/IP65 sealed front bezel

PAX analog panel meters offer many features and performance capabilities to suit a wide range of industrial applications. Provides a MAX and MIN reading memory with programmable capture time. The signal totalizer (integrator) can be used to compute a time-input product. This can be used to provide a readout of totalized flow, calculate service intervals of motors or pumps, etc. The totalizer can also accumulate batch weighing options. Once the meters have been initially configured, the user interface may be completely protected leaving only the setpoints accessible. Accept digital inputs from a variety of sources including switch contacts, outputs from CMOS or TTL circuits, magnetic pickups and all

➤ CONTINUED ➤

METERS 1/8 DIN – MULTI-FUNCTION

PAX 1/8 DIN DIGITAL PANEL METERS (CONT.)

standard RLC sensors. Can accept directional, uni-directional or quadrature signals simultaneously. Maximum input signal varies up to 34KHz depending on the count mode and function configurations programmed. Each input signal can be independently scaled to various process values.

INPUT SPECIFICATIONS

Model PAXD Universal DC Input	±200µADC, ±2mADC, ±20mADC, ±200mADC, ±2ADC, ±200mVDC, ±2mVDC, ±20VDC, ±300VDC, 100Ω, 1000Ω, 10kΩ
Model PAXP Process Input	20mA (-2 to 26mA), 10VDC (-1 to 13VDC)
Model PAXH AC True RMS Volt and Current	200mV, 2V, 20V, 300V, 200µA, 2mA, 20mA, 200mA, 5A
Model PAXS Strain Gage Input	±24mVDC, ±240mVDC
Model PAXT Thermocouple Input	T (-200°C to +400°C, -270°C to -200°C), E (-200°C to +871°C, -270°C to -200°C) J (-200°C to +760°C), K (-200°C to +1372°C, -270°C to -200°C) R (-50°C to +1768°C), S (-50°C to +1768°C), B (+100°C to +300°C, +300°C to +1820°C), N (-200°C to +1300°C, -270°C to -200°C) C (W5/W26) (0 to +1215°C)
Model PAXT RTD Input	100Ω Pt, alpha = 0.00385 (-200°C to +850°C) 100Ω Pt, alpha = 0.03919 (-200°C to +850°C) 120Ω Nickel, alpha = 0.00672 (-80°C to +260°C) 10Ω Copper, alpha = 0.00427 (-100°C to +260°C)
Model PAXT Custom Range Input	-10 to 65mV, 0 to 400Ω (high range), 0-25Ω (low range)

MODEL PAXD — UNIVERSAL DC INPUT
Selectable 24Vm 2C, 1.75mA excitation output

Mfg. Part No.	No. of Digits	Supply Voltage	Signal Input	Stock No.	Price Each
● PAXD0000	5	85-250VAC	Selectable DC Current and Voltage	84K7490	254.00
● PAXD0010	5	11-36VDC/24VAC	Selectable DC Current and Voltage	84K7491	282.00

MODEL PAXP — PROCESS INPUT

Dual range input. 24VDC transmitter power.

● PAXP0000	5	85-250VAC	Selectable Current and Voltage	84K7508	243.00
● PAXP0010	5	11-36VDC/24VAC	Selectable Current and Voltage	84K7509	270.00

MODEL PAXH — AC TRUE RMS VOLT AND CURRENT

Accepts AC or DC coupled inputs. Three-way isolation: power, input and outputs.

● PAXH0000	5	85-250VAC	Selectable AC Current and Voltage	84K7492	317.00
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MODEL PAXS — STRAIN GAGE INPUT

Selectable 5VDC or 10VDC bridge excitation. Programmable auto-zero tracking.

● PAXS0000	5	85-250VAC	Strain Gage	84K7512	360.00
● PAXS0010	5	11-36VDC/24VAC	Strain Gage	84K7513	388.00

MODEL PAXT — THERMOCOUPLE AND RTD INPUT

Conforms to ITS-90 standards. Custom scaling for non-standard probes. Time-temperature integrator.

● PAXT0000	5	85-250VAC	Selectable Thermocouple and RTD	84K7516	243.00
● PAXT0010	5	11-36VDC/24VAC	Selectable Thermocouple and RTD	84K7517	270.00

MODEL PAXC — 1/8 DIN COUNTERS

Dual count quad inputs. Up to 3 count displays. Setpoint alarm outputs (with plug-in card).

● PAXC0000	6	85-250VAC	Pulse	84K7488	211.00
● PAXC0010	6	11-36VDC/24VAC	Pulse	84K7489	239.00

MODEL PAXR — 1/8 DIN RATE METERS

Rate indication. Minimum/maximum rate displays. Setpoint alarm outputs (with plug-in card).

● PAXR0000	6	85-250VAC	Pulse	84K7510	211.00
● PAXR0010	6	11-36VDC/24VAC	Pulse	84K7511	239.00

MODEL PAXI — 1/8 DIN COUNTER/RATE METERS

10 point scaling (for non-linear processes). Four setpoint alarm outputs, retransmitted analog output and communication and bus capabilities (with option cards).

● PAXI0000	6	85-250VAC	Pulse	84K7493	264.00
● PAXI0010	6	11-36VDC/24VAC	Pulse	84K7494	292.00

MODEL PAX — 1/8 DIN PRESET TIMER (PAXTM) AND REAL-TIME CLOCK (PAXCK)

Both can function as an elapsed timer or preset timer, while the PAXCK also offers real-time clock with date capability. Both units can function as an elapsed time indicator. By using two separate signal inputs and 23 selectable timer ranges, the meters can be programmed to meet most any timing application. With the addition of a plug-in setpoint card, they can easily become a dual or quad output preset timer

● PAXCK000	6	85-250VAC	Pulse	84K7486	211.00
● PAXCK010	6	11-36VDC/24VAC	Pulse	84K7487	239.00
● PAXTM000	6	85-250VAC	Pulse	84K7514	169.00
● PAXTM010	6	11-36VDC/24VAC	Pulse	84K7515	197.00

OPTIONAL PLUG-IN CARDS

Mfg. Part No.	Description	Stock No.	Price Each
● PAXCDS10	Dual Setpoint Relay Output Card	84K7483	37.00
● PAXCDS20	Quad Setpoint Relay Output Card	84K7484	48.00
● PAXCDS40	Quad Setpoint Sourcing Open Collector Output Card	84K7485	37.00
● PAXCDC10	RS485 Serial Communications Output Card with Terminal Block	84K7477	48.00
● PAXCDC20	RS232 Serial Communications Output Card with Terminal Block	84K7478	48.00
● PAXCDC30	DeviceNet Communications Card	84K7479	116.00
● PAXCDC40	Modbus Communications Card	84K7480	58.00
● PAXCDC50	Profibus-DP Communications Card	84K7481	143.00
● PAXCDL10	Analog Output Card	84K7482	74.00

(88660)

HAWK III MICROPROCESSOR CONTROLLERS



- 1/8 DIN and 3.24" Depth Behind Panel
- 7 Segment, Bright Red 3 1/2 or 4 1/2 Digit Display
- Green LED Display Available At No Additional Charge
- 120VAC Power, Optional 9-32VDC Power
- Versatile Configurations to Suit Your Applications
- All Parameters Set From Front Panel
- Screw Terminal Connectors for Easy Installation
- Peak/Valley and Password Lockout
- Optional Output and Excitation Range
- Optional One, Two or Four 5 Amp Relays
- Model H335 Indicates 3 1/2-Digit, Model H340 Indicates 4-Digit, Model H345 Indicates 4 1/2-Digit



Many other ranges and configurations available. Go online or call.

DC VOLTAGE CONTROLLERS

Mfg. Part No.	Input	Outputs/Relays	Stock No.	Price Each
H3351-11-000	200mV	None	90C1349	169.24
H3351-13-000	20V	None	90C1354	169.24
H3351-11-010	200mV	One	90C1350	214.67
H3351-12-010	2V	One	90C1352	214.67
H3351-13-010	20V	One	90C1355	214.67
H3351-14-010	200V	One	90C1357	214.67
H3351-11-0-2-0	200mV	Two	23M9665	237.21
H335-1-12-0-2-0	2V	Two	90C1353	237.21
H3351-13-020	20V	Two	90C1356	237.21
H3351-14-020	200V	Two	90C1358	237.21
H335-1-15-0-2-0	600V	Two	90C1359	237.21

DC CURRENT CONTROLLERS

For higher DC current levels use Simpson external shunt and scale display.

H3351-21-020	200µA	Two	05J2192	237.21
H3351-22-020	2mA	Two	05J2193	237.21

DC PROCESS CONTROLLERS

H3351-71-000	4-20mA	None	90C1365	169.24
H3351-71-010	4-20mA	One	90C1366	214.67
H3351-71-020	4-20mA	Two	90C1367	237.21
H3452-71-640	4-20mA	RS485/Four	90C1378	481.01
H345-2-71-1-4-0	4-20mA	4-20mA/Four	90C1377	517.29

AC VOLTAGE CONTROLLERS

H3351-34-010	200V	One	90C1360	254.20
H3351-34-020	200V	Two	90C1361	276.75

AC CURRENT CONTROLLERS

For higher AC current levels, use with Simpson® current transformers.

H3351-46-000	5A	None	90C1362	208.77
H3351-46-010	5A	One	90C1363	254.20
H3351-46-020	5A	Two	02M2070	276.75
H3452-46-040	5A	Four	90C1372	418.76

AC TRMS CONTROLLERS

H3452-53-040	20V TRMS	Four	90C1373	464.89
H3452-65-120	2A TRMS	4-20mA/Two	90C1375	587.98
H345-2-66-1-2-0	5A TRMS	4-20mA/Two	90C1376	587.98

RESISTANCE CONTROLLERS

H3351-81-010	200 ohm	One	90C1368	288.54
H3351-82-010	2 Kohm	One	90C1369	288.54
H3351-83-010	20 Kohm	One	90C1370	288.54
H3351-84-010	200 Kohm	One	90C1371	288.54

TEMPERATURE CONTROLLERS

H3401-91-000	Type J(C/F)	None	05J2195	237.21
H3401-91-020	Type J(C/F)	Two	05J2196	305.18
H3401-92-020	Type K(C/F)	Two	05J2197	305.18
H3401-93-020	RTD PT 100	Two	05J2198	316.51

(2444)

NEMA 4X COVER



NEMA-4 (IP-65) splash-proof lens cover fits all Simpson® 1/8 DIN controllers and indicators, providing protection against dust, falling dirt, salt spray, dripping water, and non-corrosive liquids. 4.30W x 2.41H x 0.96"D (109.22mm x 61.21mm x 24.38mm).

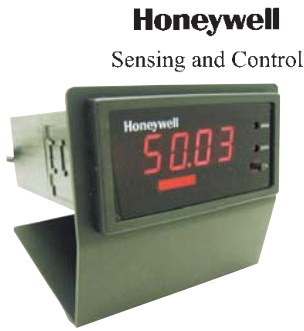
Mfg. Part No.	Description	Stock No.	Price Each
45003	NEMA-4 Lens Cover	92F4277	40.22

(42170)

METERS 1/8 DIN – PROCESS

SENSOTEC MODEL GM SINGLE-CHANNEL SIGNAL CONDITIONERS

- Features:**
- Versatile full function signal conditioner, amplifier, and power supply
 - Large 0.56" readout display size
 - Short circuit protected
 - 20,000 count resolution
 - 14+ bit accuracy (20,000 steps)
- Specifications:**
- 4 1/2 digit LED display
 - ±0.03% accuracy
 - Supply voltage: 115VAC
 - Operating temperature range: 32°F to 130°F
 - Panel mount bracket included
 - Bench mount bracket and NEMA 4 splash cover also available; order separately below



AE213 (shown with Bench Mount Bracket)

SIGNAL CONDITIONERS

Mfg. Part No.	Description	Input (mV/V)	Output (V)	Stock No.	Price 1-24
AE213	Model GM	0.5-5	±5	27M1753	757.50
AE213 58C	Model GM w/Peak Hold	0.5-5	±5	27M1754	1104.03

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
AA923	NEMA-4 Splash proof front cover	29M9214	90.52
AA924	Bench mount bracket	29M9215	45.26

(90235)

Honeywell Sensing and Control

INFINITY® SERIES 1/8 DIN INDICATORS/CONTROLLERS

- Options Include:**
- Dual 7A Form C Relays
 - 4 Setpoints
 - Isolated RS-485, Addressable up to 199 Units
 - Isolated Parallel BCD Output
 - Isolated Serial RS-232
 - Isolated Analog Output of 0-10VDC, 0-5VDC, 1-5VDC, 0-20mA DC and 4-20mA DC



TEMPERATURE METERS

Mfg. Part No.	Signal Inputs (Standard)	Stock No.	Price Each
INFT-0000-KF	T/C Input	84F866	595.00
INFT-0210-KF	T/C Input, Relays, Analog	84F868	780.00
INFT-0200-RTD2F	RTD Input, Relays	84F870	670.00

STRAIN METERS

INFS-0000-DC1	Strain Input	84F872	545.00
INFS-0210-DC1	Strain Input, Relays, Analog	84F874	730.00

PROCESS METERS

INFP-0000-C2	Process Input	24C5184	545.00
INFP-0200-C2	Process Input, Relays	96B0765	620.00
INFP-0210-C2	Process Input, Relays, Analog Out	18C0417	730.00

(2457)

QUANTA PROCESS INDICATORS AND CONTROLLERS

The QUANTA process indicators and controllers feature 0.56" (14.22) LED displays, screw terminal barrier strip for power and signal connection. Units are standard 1/8 DIN panel cutout. Input signal is selectable via jumpers for 0-1mA, 4-20mA, 10-50mA, ±200mV to ±20VDC and pot adjustable to display engineering units. Dual set point option includes 2 internal Form C relays rated at 10A at 20VDC or 240VAC resistive. 2 LED lamps indicate on/off status of either relay. Set points are screwdriver adjustable over entire display range or over narrower ranges selected by jumpers on screw terminal strip. Analog output is adjustable for 4-20mA or 0-10VDC. Factory scaling available for different display range (FS), other input signal and outputs are available.



NEWPORT

INFINITY "C" SERIES INDICATORS/CONTROLLERS

- Common Specifications:**
- Display: 4-Digit, 9-Segment, 21mm (0.83") Color-Selectable (Red, Green, Amber) LED
 - Analog-To-Digital Technique: Dual Scope
 - Internal Resolution: 15 Bits
 - Polarity: Automatic
 - Read Rate: 3/Sec.
 - Step Response: 2 Seconds
 - Power: 115VAC, 230VAC, 10-32VDC, 26-56VDC
 - Operating Temperature: 0°C to 60°C
 - Dimensions: 48H x 96W x 152mm D (1.89 x 3.78 x 6.0")



NEWPORT



The Infinity® C Series features the biggest and brightest 1/8 DIN panel meter display. Red, green or amber LED color is menu-selectable. Options include dual 5A Form C relays for alarm or control, plus a choice of isolated or non-isolated analog output scalable from 0-10VDC, 0-20mA, or 4-20mA. Covers many signal inputs including: process (DC voltage and current), strain gauge, thermocouple, RTD, dual-differential thermocouple, RTD, PH, ORP, and AC voltage and current.

INFCR RTD TEMPERATURE PANEL METERS

Standard features include a choice of 0.00385 or 0.00392 alpha curves; 2, 3 or 4 wire RTDs, 0.1° or 1.0° resolution, dual set points. Rated 115VAC. Red LED display.

Mfg. Part No.	Signal Input	Control Output	Analog Output	Stock No.	Price Each
INFCR-010B	0.00385 or 0.00392	Yes	No	92F6552	390.20
INFCR-011B	0.00392	Yes	Yes	93F9334	395.00

Optional Power: 25-56VDC and 10-32VDC are available on all models; go online or call.

INFCT THERMOCOUPLE INPUT TEMPERATURE METERS

Standard features include 0.1° or 1.0° resolution and dual setpoints. Rated 115VAC. Red, green or amber LED color display is menu selectable. Dual setpoint, analog output and DC power optional.

Mfg. Part No.	Signal Input	Control Output	Analog Output	Stock No.	Price Each
INFCT-000B	J,K,T,J-DIN	No	No	67C1854	286.65
INFCT-010B	J,K,T,J-DIN	Yes	No	67C1808	368.55
INFCT-011B	J,K,T,J-DIN	Yes	Yes	67C1850	462.15

INFCP PROCESS PANEL METERS

Accepts a wide range of DC voltage and current inputs to cover any typical process application. Features easy front panel scaling to virtually any engineering units, selectable excitation of four voltages to work with most transducers and transmitters. Red, green or amber LED color is menu selectable. Signal Input: 0-100mV (±50mV), 0-10V (±5V), 0-20mA, 4-20mA.

Mfg. Part No.	Control Output	Analog Output	Stock No.	Price Each
INFCP000B	No	No	24C7158	289.59
INFCP-010B	Yes	No	25C3532	381.15
INFCP-001B	No	Yes	25C2386	384.15

INFCS SERIES STRAIN PANEL METERS

The Newport Infinity C Strain meter accepts a wide range of DC voltage and current inputs to cover any typical application. Easy front scaling to virtually any engineering units. Selectable excitation of 4 voltages. Front panel and remote tare function for weighing applications and a hardware lockout to prevent unauthorized changes in setup. Red, green or amber LED color is menu selectable. Input ranges: 0-100mV, ±50mV, 0-10V, ±5V, 0-20mA, 4-20mA. Excitation voltage: 24V at 25mA or 12V at 50mA; 10V at 120mA or 5V at 60mA. Max. error strain/process: ±0.03% rdg.

Mfg. Part No.	Control Output	Analog Output	Stock No.	Price Each
INFCS-000B	No	No	39C1940	306.25
INFCS-001B	Yes	Yes	81C7707	406.25

(2473)

7

INF-B ULTRA HIGH PERFORMANCE METER

- Process, Strain, T/C, RTD Input
- Accuracy ±0.005% rdg
- 6-Digit Color Changing LED Display, 9-Segment (0.68")
- Up to 166 Readings per Second
- 10 Point Linearization
- 4 Isolated Open Collector Output
- Isolated Analog Output Optional
- 4 Relays Optional
- Power 90 to 240VAC
- RS232/RS485 or Ethernet Output Optional



NEWPORT



The Newport ultra high performance BEYOND INFINITY® can measure a broad spectrum of DC voltage and current, 9 thermocouple types, variety of RTDs, inputs from pressure transducers, load cells, strain gauges, as well as potentiometer inputs. Also features 10 point linearization of input signals, programmable by the user for custom applications. Built-in excitation to power virtually any sensor or transmitter, and 4 isolated open collector outputs for control or alarms are standard. Output options include isolated programmable analog voltage or current and four relays. Serial communications option is selectable by user for RS-232, RS-485 and either a straightforward ASCII protocol or MODBUS. The Ethernet option enables direct connection to the network and transmits data in TCP/IP protocol. It is possible to monitor and control a process through a web browser from anywhere on the Internet.

METER

Type	Description	Stock No.	1-2
INF-B	Universal Digital Meter	89C1801	731.85

OPTION CARDS FOR INF-B

Type	Description	Stock No.	1-2
TC-B	Thermocouple Temperature Compensation Card	02E7096	30.75
REL4-B	Four SPDT Relay Board (two 5A, two 3A)	02E6858	123.00
AN03-B	Isolated 14-Bit Analog Output Board	02E2634	123.00
RS24	Serial Communications RS-232 + RS-485 + MODBUS Output Board	72C6177	123.00
EI-B	Ethernet/Internet Output Board	02E2699	123.00

(73300)

METERS 1/8 DIN – PROCESS • METERS 1/8 DIN – SINGLE FUNCTION

IDP SERIES PROCESS METER



4-digit LED process meter that has user-selectable inputs of 4-20mA, 20-4mA, 0-5V, 1-5V or 0-10V 1/2 DIN case 4" deep. Removable screw terminals for easy connections. CE compliant. UL listed.



Mfg. Part No.	Power	Display	Stock No.	Price Each
IDP-1	230VAC	Red LED	15N3818	195.00
IDP-2	115VAC	Green LED	92B7223	195.00
IDP-4	10-24 VDC	Red LED	16F1116	290.00

(2387)

1/2 DIN BIG-DIGIT PANEL METERS



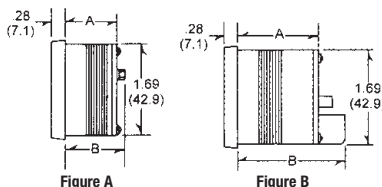
- 3 1/2 Digits with 0.8" LED or 0.98" LCD for Easy, Precise Viewing
- Requires Only 1.37" (35) Depth Behind Panel

Universal panel meters with large LCD or red or green LED displays for voltage or current. Standard 1/2 DIN industry panel cutout. Snap-in panel mount design for easy installation and secure mounting. Fit panels up to 0.08" thick. Standard 4-20mA input is displayed as 0-100.0. Decimal point selectable by solder jumpers. Overrange and polarity indication. Surface mount design. DCV power: +5VDC. DCA power: loop (4-20mA DC).

Mfg. Part No.	Display	Input	Stock No.	Price Each
1801111	Red LED	2VDC	83F8113	83.00
1802111	Green LED	2VDC	83F8114	83.00
1803111	LCD	2VDC	83F8115	83.00
180500	LCD	4-20mA DC	83F8116	105.00

(32678)

2000 SERIES UNIVERSAL SELECTABLE METERS



- High-Impact Polycarbonate Case
- NEMA 4, 12, and IPC 55 (Splash-Proof / Hose Down) Standards
- DIN Industry Standard Cutout

Universal selectable true RMS AC voltage and current model or Process DC voltage/DC current meters allow you to select different inputs, scale in engineering units, select decimal point and calibrate from the rear of the instrument without opening the case. Surface mount and special design features result in unit that is only 1" deep behind the panel (1 1/2" for mfg. part no. 2153-3419-04) and is splash- and hose-down proof. Screw terminals eliminate added cost of plug-on screw terminals or solder connectors. Operating temperature: -20° to +60°C. Over-range indication.

DIMENSIONS

Input Type	Figure	A	B
AC	A	0.99" (25.1)	1.15" (29.2)
DC	A	0.99" (25.1)	1.15" (29.2)
4-20mA Process	B	1.49" (37.8)	2.00" (50.8)

UNIVERSAL SELECTABLE: PROCESS, DC VOLTAGE OR DC CURRENT TYPE, 115VAC

Mfg. Part No.	Input	Scaled	Stock No.	Price Each
2153-3406-04	10VDC	0-10.00	93F7500	202.50
2153-3419-04	4-20mADC	0-100.0	93F7502	202.50

UNIVERSAL SELECTABLE: POWER RANGES (TRUE RMS)

2353-1024-10	200VAC	0-200.0	93F7507	234.50
2353-1026-10	250VAC	0-250	93F7508	234.50

(3469)

1/8 DIN FALCON SERIES DIGITAL PANEL METERS



The Falcon series indicators are premium quality meters for industrial applications. These 1/8 DIN (92mm x 45mm) meters require only 2.94" (74.7mm) behind panel. All units feature jumper selectable decimal points, display scaling and 120VAC power. The Falcon has 0.56" bright red LED display for high visibility. Mfg. part nos. beginning with F35- are 3 1/2-digit; F45- are 4 1/2-digit. Screw terminal connector for easy wiring. Optional excitation output, 220VAC or 9-32VDC available; go online or call.



AC VOLTAGE INDICATORS (AC AND AC TRUE RMS)

Mfg. Part No.	Input	Stock No.	Price Each
F35-1-31-0	200mV	93F9500	157.34
F35-1-32-0	2V	93F9501	157.34
F35-1-33-0	20V	93F9502	157.34
F35-1-34-0	200V	93F9503	157.34
F35-1-51-0	200mV True RMS	93F9511	191.59
F35-1-52-0	2V True RMS	93F9512	191.59
F35-1-53-0	20V True RMS	93F9513	191.59
F35-1-54-0	200V True RMS	93F9514	191.59
F45-1-33-0	20V	95F5560	254.34
F45-1-34-0	200V	95F5561	254.34

DC VOLTAGE INDICATORS

F35-1-11-0	200mV	93F9480	117.81
F35-1-12-0	2V	93F9481	117.81
F35-1-13-0	20V	93F9482	117.81
F35-1-14-0	200V	93F9483	117.81
F45-1-11-0	200mV	95F5529	214.80
F45-1-12-0	2V	95F5530	214.80
F45-1-13-0	20V	95F5531	214.80
F45-1-14-0	200V	95F5532	214.80

AC CURRENT INDICATORS

F35-1-45-0	2A	93F9498	157.34
F35-1-46-0†	5A	93F9499	157.34
F351-66-0†	5A True RMS	93F9510	191.59

† Scale display, requires use with Simpson current transformer for higher AC current levels; go online or call.

DC CURRENT INDICATORS

F35-1-11-0‡	200mV	93F9480	117.81
F35-1-21-0	200µA	93F9475	117.81
F35-1-22-0	2mA	93F9476	117.81
F35-1-23-0	20mA	93F9477	117.81
F35-1-24-0	200mA	93F9478	117.81
F35-1-25-0	2A	93F9479	117.81
F35-1-26-0	5A	91B3594	117.81
F45-1-11-0‡	200mV	95F5529	214.80
F45-1-22-0	2mA	95F5535	214.80
F45-1-23-0	20mA	95F5536	214.80
F45-1-25-0	2A	95F5538	214.80

‡ Scale display, requires use with Simpson external shunt for higher DC current levels; go online or call.

FREQUENCY INDICATORS

F35-1-91-0	20-199.9Hz RMS	91F9700	117.81
F35-1-92-0	20-1999Hz RMS	91F9701	117.81

TEMPERATURE INDICATORS

F45-1-80-0-C	J T/C	95F5692	214.80
F45-1-81-0-F	K T/C	13C3536	214.80
F45-1-810C	K T/C	23C1953	214.80
F45-1-90-0	RTD PT 100	95F5551	206.50

DC PROCESS INDICATORS

F35-1-71-0	4-20mA	93F9485	153.66
F35-1-73-0	0-10V	93F9487	153.66
F35-3-71-0*	4-20mA	52F5891	227.45
F45-1-71-0	4-20mA	95F5539	214.80
F45-1-73-0	0-10V	95F5541	214.80

DC PROCESS INDICATORS WITH 24VDC EXCITATION OUTPUT

F45-1-71-2	4-20mA	95F5689	275.79
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* 9-32VDC power. (16728)

METERS 1/8 DIN – SINGLE FUNCTION • METERS MINI – AC VOLTS

2800 SERIES DIGITAL PANEL METERS



2800 series digital panel meters offer high accuracy and a two piece edge connector for easy wiring of the input signal. Fits 1.682" x 3.662" cutout. 3 1/2-digit LED display. Jumper selectable decimal points.

DC VOLTAGE INDICATORS

Mfg. Part No.	Input	Input	Stock No.	Price Each
24500 2865	200mV	120VAC	55F1688	178.00
24501 2865	2V	120VAC	55F1689	181.05
24502 2865	20V	120VAC	55F1690	181.05
24503 2865	200V	120VAC	55F1691	178.00
24600 2866	200mV	5VDC	55F1697	161.30
24601 2866	2V	5VDC	55F1698	164.25
24602 2866	20V	5VDC	55F1699	161.30
24603 2866	200V	5VDC	55F1700	161.30

AC VOLTAGE INDICATOR

24633 2869	200V	120VAC	89F3533	294.46
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DC CURRENT INDICATORS

24504 2865	20uA	120VAC	55F1692	181.05
24505 2865	200uA	120VAC	55F1693	178.00
24506 2865	2mA	120VAC	55F1694	178.00
24507 2865	20mA	120VAC	55F1695	178.00
24508 2865	200mA	120VAC	55F1696	178.00

(16734)

DATEL® 2-WIRE AC LINE FREQUENCY METERS



- Self-powered, no external supplies required
- Screw terminals simplify panel mounting
- Ideal for emergency power equipment
- Epoxy encapsulated for harsh environments



SPECIFICATIONS:

Accuracy:	± 0.01V
Display:	3 digit, Red, 0.40" high
Dimensions:	1.38 x 0.88 x 1.00"

Mfg. Part No.	Frequency Range (Hz)	Voltage Range (Vac)	Stock No.	Price Each	
				1-9	
87K3646	47.0-99	85-140	87K3646	55.94	
87K3659	47.0-99	170-264	87K3659	55.94	

(83958)

DMU-30 VOLTAGE MEASURING PANEL METERS

Just Added



- Measures and displays the true-rms value of complex ac voltages
- Daylight-readable LED display with automatic brightness adjustment
- Moisture & impact resistant package offers NEMA-4/IP65 protection
- Operates from universal 85-264Vac or 110-300Vdc
- Input circuit fully isolated from operating ac power source
- 47-1kHz input frequency range with crest factors up to 5



Large 0.56" (14.2mm) high super-bright red LED-display is readable in full sunlight. An auto-dimming circuit automatically adjusts the display brightness for all viewing conditions. DMU-30ACV ac voltmeters are packaged in a plastic package with an integrated bezel and gasket assembly designed to meet NEMA-4/IP65 for moisture resistance in outdoor applications. Because the input circuitry is electrically isolated from the unit's operating power source, these voltmeters can measure ac signals down to zero volts. An input frequency range of 47-1kHz makes these voltmeters ideal for all ac voltage monitoring applications. And, unlike conventional average-responding designs, these meters can measure and accurately display the true-rms value of triangle waves, square waves, or any other irregularly shaped waveform, with 0.4% full-scale accuracy. DMU-30ACV series rms voltmeters are available in a choice of three input ranges: 20Vac (with 0.01V resolution), 200Vac (0.1V resolution), and 300Vac (1V resolution). DMU-30DCV series dc voltmeters are available in a choice of four input ranges: ±200mVdc (with 0.1mV resolution), ±2Vdc (0.001V resolution), ±20Vdc (0.01V resolution), and ±200Vdc (0.1V resolution). The dc signal under measurement is electrically isolated from the unit's operating power source. Perfect for all industrial and high-reliability instrumentation, alternative power generators, and any other application which requires precise ac line monitoring in harsh indoor/outdoor environments. Simply connect the input signal and an 85-264Vac source of operating power to the two rear-mounted terminal blocks and the unit is fully operational.

▶ CONTINUED ▶

DMU-30 VOLTAGE MEASURING PANEL METERS (CONT.)

AC VOLTMETERS

Mfg. Part No.	Input Range	Stock No.	Price Each	
			1-9	
26P7038	0 to 19.99 Vac	26P7038	112.86	
26P7039	0 to 199.9 Vac	26P7039	112.86	
26P7040	0 to 300 Vac	26P7040	112.86	

DC VOLTMETERS

26P7042	0 to 1.999 Vdc	26P7042	105.88
26P7043	0 to 19.99 Vdc	26P7043	105.88
26P7044	0 to 199.9 Vdc	26P7044	105.88

(137217)

DATEL® 2-WIRE AC LINE VOLTAGE MONITORS



- Plugs directly into 120V wall outlet
- Screw terminals for panel mounting
- Large easy to read, red, green or blue LED displays
- Fully encapsulated for harsh environments
- Half-wave averaging, rms calibrated
- UL, CSA and IEC1010-1 certified



SPECIFICATIONS:

Accuracy:	± 1V
Input Range:	85-264Vrms
Frequency Range:	47-63Hz
Display:	3 digit, Red, 0.37" high
Dimensions:	1.38 x 0.88 x 1.00"

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	
87K3649	LED AC Voltmeter with threaded terminations and screws	87K3649	55.94	
87K3648	LED AC Voltmeter with threaded terminations and screws	87K3648	64.93	
87K3650	LED AC Voltmeter with blade terminals (installed)	87K3650	55.94	

(83957)

3/64 DIN MINI-MAX SERIES DIGITAL PANEL METERS



Red Backlight



No Backlight

Mfg. part no. M235 3 1/2-digit, M240 4-digit and M245 4 1/2-digit Mini-Max indicators have 0.5" (12.7mm) high LCD or negative image red backlighting display, user selectable decimal point and display scaling. Indicator fits 3/64 DIN cutout (22mm x 68mm) and requires only 2.36" (60mm) behind front panel. Mounting bracket provided to allow vertical or horizontal stacking of multiple indicators. Screw terminal connectors and 85-250VAC power standard. Optional excitation output and 9-32VDC power available; go online or call.

AC VOLTAGE INDICATORS

Mfg. Part No.	Input	Backlight	Stock No.	Price Each
M235-0-0-33-0	20V	None	95F5651	140.69
M235-0-0-34-0	200V	None	95F5652	140.69
M235-1-0-34-0	200V	Negative Red	95F5659	163.10
M245-0-0-34-0	200V	None	92F4227	174.47

DC VOLTAGE INDICATORS

M235-0-0-12-0	2V	None	95F5629	101.16
M235-0-0-13-0	20V	None	95F5630	101.16
M235-0-0-14-0	200V	None	95F5631	101.16
M235-0-2-13-0*	20V	None	51B1090	135.41
M235-1-0-11-0	200mV	Negative Red	95F5634	123.57
M235-1-0-12-0	2V	Negative Red	95F5635	123.57
M235-1-0-13-0	20V	Negative Red	95F5636	123.57
M235-1-2-13-0*	20V	Negative Red	90B5878	157.82
M235-1-0-14-0	200V	Negative Red	95F5637	121.14
M235-0-2-14-0*	200V	None	90B2969	135.41
M245-0-0-11-0	200mV	None	92F4239	134.93
M245-0-0-12-0	2V	None	92F4240	134.93
M245-0-0-13-0	20V	None	92F4241	134.93
M245-0-0-14-0	200V	None	92F4242	134.93
M245-1-0-11-0	200mV	Negative Red	92F4245	157.34

▶ CONTINUED ▶

METERS MINI – AC VOLTS • METERS MINI – CURRENT

3/64 DIN MINI-MAX SERIES DIGITAL PANEL METERS (CONT.)

DC VOLTAGE INDICATORS

Mfg. Part No.	Input	Backlight	Stock No.	Price Each
M245-1-0-12-0	2V	Negative Red	92F4246	157.34
M245-1-0-13-0	20V	Negative Red	92F4247	157.34
M245-1-0-14-0	200V	Negative Red	92F4221	157.34

* 9-32VDC power.

AC CURRENT INDICATORS

M235-0-0-44-0	200mA	None	95F5653	140.69
M235-0-0-45-0	2A	None	95F5654	140.69
M235-0-0-46-0†	5A	None	95F5655	140.69
M235-1-0-46-0†	5A	Negative Red	95F5662	163.10
M245-0-0-44-0	200mA	None	92F4228	174.47
M245-0-0-45-0	2A	None	92F4229	174.47
M245-0-0-46-0†	5A	None	92F4230	174.47
M245-1-0-44-0	200mA	Negative Red	92F4235	196.88
M245-1-0-45-0	2A	Negative Red	92F4236	196.88
M245-1-0-46-0†	5A	Negative Red	92F4237	196.88

† Scale display needs Simpson current transformer for higher current levels; go online or call.

DC CURRENT INDICATORS

M235-0-0-24-0	200mA	None	95F5632	101.16
M235-0-0-25-0	2A	None	95F5633	101.16
M235-0-0-26-0	5A	None	88F1583	101.16
M235-1-0-24-0	200mA	Negative Red	95F5638	121.14
M235-1-0-25-0	2A	Negative Red	95F5639	121.14
M245-0-0-11-0†	200mV	None	92F4239	134.93
M245-0-0-24-0	200mA	None	92F4243	134.93
M245-0-0-25-0	2A	None	92F4244	134.93
M245-1-0-24-0	200mA	Negative Red	92F4222	157.34
M245-1-0-25-0	2A	Negative Red	92F4223	157.34

† Scaled display requires Simpson external shunt for higher DC current levels.

FREQUENCY INDICATORS (LED DISPLAY)

M235-0-0-81-0	20-199.9Hz RMS	None	91F9696	101.16
M235-0-0-82-0	20-1999Hz RMS	None	91F9697	101.16
M235-1-0-81-0	20-199.9Hz RMS	Negative Red	91F9698	123.57
M235-1-0-82-0	20-1999Hz RMS	Negative Red	91F9699	123.57

TEMPERATURE INDICATORS

M2400-910F	J T/C	...	52F6604	180.55
M2400-920F	K T/C	...	52F6605	180.55

DC PROCESS INDICATORS

M235-0-0-71-0	4-20mA	None	95F5663	118.29
M235-0-0-73-0	0-10V	None	16F2260	118.29
M235-1-0-71-0	4-20mA	Negative Red	95F5665	140.69
M235-1-0-73-0	0-10V	Negative Red	16F2261	140.69
M235-0-2-71-0*	4-20mA	None	95F5667	152.54
M235-1-2-71-0*	4-20mA	Negative Red	95F5669	174.95
M245-0-0-71-0	4-20mA	None	92F4238	152.06
M245-1-0-71-0	4-20mA	Negative Red	92F4213	174.47
M245-0-2-71-0*	4-20mA	None	92F4215	186.31

*9-32VDC power (16738)

DATel® ACA-20PC SERIES AC AMMETERS WITH BUILT-IN CURRENT TRANSFORMERS



- Built-in current transformers for direct measurement of 0 to 2/20/50/100 Amps
- On-board current transformers
- Scaling/interface circuitry
- Precision A/D converters
- Bright red LED displays
- Subminiature, 1.38" x 0.88" package



SPECIFICATIONS:

Accuracy:	± 0.15%
Input:	85-264Vac @ 50/60Hz with "self-power"
Display:	0.37"/9.4mm 3-1/2 digit Red
Isolation:	2000V between load and supply

➔ CONTINUED ➔

DATel® ACA-20PC SERIES AC AMMETERS WITH BUILT-IN CURRENT TRANSFORMERS (CONT.)

Mfg. Part No.	Input Range (A)	Stock No.	Price Each
● ACA-20PC-1-AC1-RL-C	1.999A Voltage	39M6189	77.91
● ACA-20PC-2-AC1-RL-C	19.99A	39M6191	77.91
● ACA-20PC-3-AC1-RL-C	50.0	39M6193	83.90
● ACA-20PC-4-AC1-RL-C	100.0A	39M6195	83.90

(83941)

DATel® ACA5-20PC SERIES 5AMP INPUT AC AMMETERS



- Scales and displays the output of 50:5A to 2000:5A current transformers
- On-board 5A current transformers
- Scaling/interface circuitry
- Precision A/D converters
- Bright red LED displays
- Subminiature, 1.38" x 0.88" package
- Digital replacements for analog ammeters



SPECIFICATIONS:

Accuracy:	± 0.15%
Input:	85-264Vac @ 50/60Hz
Display:	0.37"/9.4mm 3-1/2 digit Red
Isolation:	2000V

Mfg. Part No.	Input Range (A)	Stock No.	Price Each
ACA5-20PC-1-AC1-RL	50.0A	53K5583	71.91
● ACA5-20PC-3-AC1-RL-C	100.0A	39M6241	71.91
● ACA5-20PC-5-AC1-RL-C	199.9A	39M6243	71.91
● ACA5-20PC-9-AC1-RL-C	500A	39M6247	71.91

5A current transformers for all ACA5-20PC series AC ammeters are available, go online or call Newark.

Mfg. Part No.	Current Ratio	Accuracy	Current Transformer for	Stock No.	Price Each
● 7020-01036-0	50:5 A	± 2%	Use with ACA5-20PC-1 ammeter	40M4740	29.58
● 7020-01038-0	100:5 A	± 1%	Use with ACA5-20PC-3 ammeter	40M4742	29.58
● 7020-01040-0	200:5 A	± 1%	Use with ACA5-20PC-5 ammeter	40M4744	29.58

(83942)

DATel® DCA-20PC SERIES DC AMMETERS WITH BUILT-IN SHUNTS



- Built-in shunts for digitally measuring DC currents from 200µA to 20A
- Functionally complete, no additional components required
- 20mV internal shunt minimizes power loss
- Includes load connections for easy 3- or 4-wire operation
- Available with red, blue or green LED displays
- Subminiature, 1.38" x 0.88" package



SPECIFICATIONS:

Accuracy:	± 0.1%
Input:	8-36Vdc, isolated power
Display:	0.37"/9.4mm 3-1/2 digit

Mfg. Part No.	Input Range (A)	Display Color	Stock No.	Price Each
● DCA-20PC-4-DC4-RL-C	199.9mA	Red	87K3618	63.92
● DCA-20PC-5-DC4-RL-C	1.999A Voltage	Red	87K3619	63.92
● DCA-20PC-6-DC4-RL-C	19.99A	Red	87K3620	63.92

(83946)

METERS MINI – CURRENT • METERS MINI – DC VOLT/CURRENT • METERS MINI – DC VOLTS

DATel® DCA5-20PC SERIES DC AMMETERS AND EXTERNAL SHUNTS



- Scales and displays the output of 5A to 2000A, 50mV AND 100mV shunts
- Wide power supply inputs: 5 to 40Vdc for 12V/24V/28V
- 48V option for telecom supplies
- Isolated-supply models for high-side shunts
- Available in red, blue or green LED displays
- Subminiature, 1.38" x 0.88" package with screw-style terminal blocks
- Digital upgrade for analog meters



SPECIFICATIONS:

Accuracy:	± 0.1%
Input:	8-36Vdc, isolated power
Display:	0.37"/9.4mm 3-1/2 digit Red

Mfg. Part No.	Input Range (A)	Stock No.	Price Each	
			1-9	
● DCA5-20PC-1-DC4-RLC	50mV shunt: 5.00A/50.0A/500A 100mV shunt: 10.00A/100.0A/1000A	29M7392	58.93	
● DCA5-20PC-2-DC4-RL-C	50mV shunt: 1.000A/10.00A/100.0A/1000A 100mV shunt: 1.999A/19.99A/199.9A/1999A	39M7983	58.93	
● DCA5-20PC-6-DC4-RL-C	50mV shunt: 1.999A/19.99A/199.9A/1999A	39M7987	58.93	

50mV and 100mV base-mounted current shunts are designed for measuring DC currents from 5A to 1200A. These precision shunts (±0.25% accuracy) connect directly to **DCA5-20PC series** DC ammeters.

Mfg. Part No.	Rated Current/Output	Resistance (Ohms @ 25°C)	Stock No.	Price Each	
				1-9	
● 3020-01096-0	50A/50mV	0.001	40M4326	23.66	
● 3020-01097-0	5A/50mV	0.01	40M4327	23.66	
● 3020-01098-0	20A/50mV	0.0025	40M4328	23.66	
● 3020-01099-0	100A/50mV	0.0005	40M4329	23.66	
● 3020-01101-0	200A/50mV	0.00025	40M4331	29.58	
● 3020-01103-0	500A/50mV	0.0001	40M4333	29.58	

(83948)

700 AND 900 SERIES PANEL METERS WITH WATERPROOF OPTION



- Large 3 1/2 Digit LCD Displays
- 4-20mA Loop Powered Meters
- AC Voltmeter
- DC Voltmeter
- NEMA 4X Rated Bezel Option
- LED Backlighting on most meters

This range of 3 1/2 digit LCD meters includes ±200mVDC full scale reading voltmeters, a 500VAC voltmeter, 4-20mA loop powered meters and a dual channel LCD voltmeter. Optional NEMA 4X rated bezels fit all meters.

700 SERIES

Mfg. Part No.	Description	W x H	Digit Height	Stock No.	Price Each
DPM 742-BL	Loop Powered	2.36 x 1.18"	0.5"	02H6481	94.77
DPM 750S-BL	DC Voltmeter	2.36 x 1.18"	0.5"	02H6482	54.71
● BEZ 700-IP	Nema 4X Bezel	2.57 x 1.39"	...	02H6394	17.73

900 SERIES

Mfg. Part No.	Description	W x H	Digit Height	Stock No.	Price Each
DPM 942	Loop Powered	2.99 x 1.73"	0.75"	02H6483	105.40
DPM 950	DC Voltmeter	2.99 x 1.73"	0.75"	02H6484	79.16
DPM 970	AC Voltmeter	2.99 x 1.73"	0.75"	02H6485	101.25
● BEZ 900-IP	Nema 4X Bezel	3.17 x 1.91"	...	02H6395	23.68

(73562)

MINIATURE DIGITAL PANEL METERS



1000 SPM Series are 3 1/2-digit, 7-segment backlit digital panel meters. Input: 200mVDC. Input resistance: ≥100MΩ. Conversion rate: 2.5 per second. Operating temperature: 0°C to +60°C. Accuracy: ±0.25% + 1 count maximum. 13-pin terminals. Window mount. **Mfg. part nos. 1030-00-19 and 1060-00-19** are loop-powered from signal and input: 4-20mA DC. Accuracy: ±0.1% of F.S. + 1 count. Operating temperature: -30°C to +80°C. Window mount. *For bezel mounting, order snap bezel separately; go online or call.*



Mfg. Part No.	Display Color	DPM Power	Stock No.	Price Each
1030-01-01-U	Positive Green	9VDC	51F3573	101.25
1030-00-19-U	Positive Green	Loop Powered	51F3577	101.20
1060-00-19-U	Positive Red	Loop Powered	51F3578	101.25

(6805)

MODEL DP5 1/2 DIN ANALOG INPUT PANEL METERS



- 5-digit 0.56" high LED display
- Programmable function keys/user input
- 9-digit totalizer (integrator) with batching
- NEMA 4X/IP65 sealed front bezel



INPUT SPECIFICATIONS

Model	Input Range
DP5D0010	±200µADC, ±2mADC, ±20mADC, ±200mADC, ±2ADC ±200mVDC, ±2VDC, ±20VDC, ±300VDC
DP5P0000	20mA (-2 to 26mA) 10VDC (-1 to 13VDC)

Meters provide a MAX and MIN reading memory with programmable capture time which is used to prevent detection of false max or min readings which may occur during start-up or unusual process events. The signal totalizer (integrator) can be used to compute a time-input product that can be used to provide a readout of totalized flow, calculate service intervals of motors or pumps, etc. The totalizer can also accumulate batch weighing operations. Once the meters have been initially configured, the parameter list may be locked out from further modification.

Mfg. Part No.	Meter Function	Supply Voltage	Stock No.	Price Each
● DP5D0010	Current/Voltage	11-36VDC, 24VAC	20M0569	239.00
● DP5P0000	Process	85-250VAC	16M3716	201.00

(94366)

DATel® 3 1/2 DIGIT, SUBMINIATURE LED/LCD PANEL METERS



- Large 0.37" display
- Epoxy-encapsulated, 12-pin DIP package
- 4 differential input voltage ranges
- High accuracy, ±1 count
- User-selectable decimal point placement
- 0 to 60°C temperature rating

The **DMS-20PC series**, includes built-in color filter and bezel, high-intensity or low-power red LED options, a "DISPLAY ENABLE", "DISPLAY TEST" and an optional "DISPLAY HOLD". LED subminiature size: 1.38 x 0.88 x 0.48". The **DMS-20LCD series** is panel or pc-board mountable, provides low-battery annunciator, and optional backlit display and 9V battery power. LCD Subminiature size: 1.38 x 0.88 x 0.48".

3 1/2 DIGIT, RED LED

Mfg. Part No.	Power Supply (V)	Input Range	Display Intensity	Stock No.	Price Each
					1-9
● DMS-20PC-0-RS-C	5.00	± 200mV	Standard	87K3640	41.95
● DMS-20PC-0-RL-C	5.00	± 200mV	Low-Power	87K3639	45.96
● DMS-20PC-1-RS-C	5.00	± 2V	Standard	87K3653	41.95
● DMS-20PC-1-RL-C	5.00	± 2V	Low-Power	87K3652	45.96
● DMS-20PC-1-RH-C	5.00	± 2V	High-Intensity	87K3651	45.96
● DMS-20PC-2-RS-C	5.00	± 20V	Standard	87K3657	41.95
● DMS-20PC-2-RS-H-C*	5.00	± 20V	Standard	16M5688	45.96
● DMS-20PC-2-RL-C	5.00	± 20V	Low-Power	87K3656	45.96
● DMS-20PC-3-RL-C	5.00	± 200V	Low-Power	87K3660	45.96

➔ CONTINUED ➔

Current Order Status & History

Check the status of your current order or access past orders from our website under MY ACCOUNT eSuite. Log in or register today.

(148881)

METERS MINI – DC VOLTS

DATEL® 3 1/2 DIGIT, SUBMINIATURE LED/LCD PANEL METERS (CONT.)

31/2 DIGIT, BLUE LED

Mfg. Part No.	Power Supply (V)	Input Range	Display Intensity	Stock No.	Price Each
● DMS-20PC-0-BS-C	5.00	± 200mV	Standard	87K3635	49.94
● DMS-20PC-1-BS-C	5.00	± 2V	Standard	87K3643	49.94
● DMS-20PC-2-BS-C	5.00	± 20V	Standard	87K3654	49.94

31/2 DIGIT, GREEN LED

● DMS-20PC-0-GS-C	5.00	± 200mV	Standard	87K3638	41.95
● DMS-20PC-1-GS-C	5.00	± 2V	Standard	87K3647	41.95
● DMS-20PC-2-GS-C	5.00	± 20V	Standard	87K3655	41.95

31/2 DIGIT, LCD

● DMS-20LCD-0-5-C	5.00	± 200mV	LED	87K3628	31.96
● DMS-20LCD-1-5-C	5.00	± 2V	LED	87K3631	31.96
● DMS-20LCD-2-5-C	5.00	± 20V	LED	87K3633	31.96
● DMS-20LCD-0-9-C	9.00	± 200mV	LED	87K3629	29.97
● DMS-20LCD-1-9-C	9.00	± 2V	LED	87K3632	29.97

*H suffix calls out DISPLAY HOLD option (83962)

DATEL® 3 1/2 DIGIT, MINIATURE LED/LCD PANEL METERS



- Epoxy-encapsulated, 12-pin DIP package
- 4 differential input voltage ranges
- High accuracy, ±1 count

- User-selectable decimal point placement
- Numerous "plug-on" application boards
- 0 to 60°C temperature rating

The **DMS-30PC series** includes built-in color filter and bezel, is panel or pc-board mountable and optional high-intensity or low-power red LED. LED miniature size: 2.17 x 0.92 x 0.56". The **DMS-30LCD series** provides autopolarity changeover and overrange indication, consumes power as low as 3.2mW, and offers optional backlit display and 9V battery power. LCD miniature size: 2.17 x 0.92 x 0.43".

3 1/2 DIGIT, 0.56" RED LED

Mfg. Part No.	Power Supply (V)	Input Range	Display Intensity	Stock No.	Price Each
● DMS-30PC-0-RS-C	5.00	± 200mV	Standard	87K3671	53.93
● DMS-30PC-0-RL-C	5.00	± 200mV	Low-Power	87K3670	57.94
● DMS-30PC-1-RS-C	5.00	± 2V	Standard	87K3676	53.93
● DMS-30PC-1-RL-C	5.00	± 2V	Low-Power	87K3675	57.94
● DMS-30PC-1-RH-C	5.00	± 2V	High-Intensity	87K3674	57.94
● DMS-30PC-2-RS-C	5.00	± 20V	Standard	87K3680	53.93
● DMS-30PC-2-RL-C	5.00	± 20V	Low-Power	87K3679	57.94
● DMS-30PC-3-RL-C	5.00	± 200V	Low-Power	87K3681	57.94

31/2 DIGIT, 0.56" BLUE LED

● DMS-30PC-1-BS-C	5.00	± 2V	Standard	87K3672	64.93
● DMS-30PC-2-BS-C	5.00	± 20V	Standard	87K3677	64.93

31/2 DIGIT, 0.56" GREEN LED

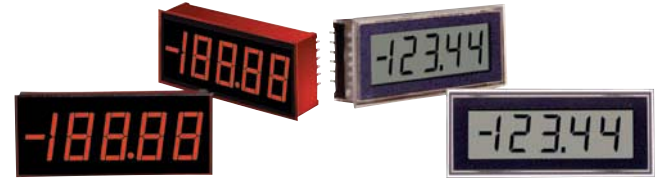
● DMS-30PC-0-GS-C	5.00	± 200mV	Standard	87K3669	53.93
● DMS-30PC-1-GS-C	5.00	± 2V	Standard	87K3673	53.93
● DMS-30PC-2-GS-C	5.00	± 20V	Standard	87K3678	53.93

31/2 DIGIT, 0.40" LCD

● DMS-30LCD-0-5-C	5	± 200mV	LCD	87K3662	47.95
● DMS-30LCD-1-5-C	5	± 2V	LCD	87K3664	47.95
● DMS-30LCD-0-9-C	9	± 200mV	LCD	87K3663	45.96
● DMS-30LCD-1-9-C	9	± 2V	LCD	87K3665	45.96
● DMS-30LCD-2-5B-C	5	± 20V	LCD	16M5707	49.94

(83964)

DATEL® 4 1/2 DIGIT, MINIATURE LED/LCD PANEL METERS



- Epoxy-encapsulated, 12-pin DIP package
- Panel or board mountable
- Display HOLD function standard

- 3 differential, dual, input voltage ranges
- Scientific-grade accuracy, ±2 counts
- 0 to 50°C temperature rating

The **DMS-40PC series** includes built-in color filter and bezel, precision, autozeroing, factory calibrated A/D converter, and optional high-intensity or low-power red LED's and BCD data outputs for CPU interface. LED miniature size: 2.17 x 0.92 x 0.56". The **DMS-40LCD series** includes user-selectable decimal point placement, low-battery annunciator, consumes typically 12.5mW, and offers optional backlit display and 9V battery power. LCD miniature size: 2.17 x 0.92 x 0.43".

4 1/2 DIGIT, 0.52" RED LED

Mfg. Part No.	Power Supply (V)	Input Range	Display Intensity	Stock No.	Price Each
● DMS-40PC-1-RH-C	5.00	± 2V	High-Intensity	87K3688	81.90
● DMS-40PC-1-RL-C	5.00	± 2V	Low-Power	87K3690	81.90
● DMS-40PC-1-RL-BCD-C*	5.00	± 2V	Low-Power	87K3689	85.91
● DMS-40PC-1-RS-C	5.00	± 2V	Standard	87K3691	77.91
● DMS-40PC-2-RL-C	5.00	± 20V	Low-Power	87K3692	81.90
● DMS-40PC-2-RS-C	5.00	± 20V	Standard	87K3693	77.91

4 1/2 DIGIT, 0.52" GREEN LED

● DMS-40PC-1-GS-C	5.00	± 2V	Standard	87K3687	77.91
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4 1/2 DIGIT, 0.40" LCD

● DMS-40LCD-0/1-5-C	5.00	± 200mV	LCD	87K3684	77.91
● DMS-40LCD-1/2-5-C	5.00	± 2V / ± 20V	LCD	87K3685	77.91

*BCD data outputs for CPU interface (83967)

DATEL® DMS-30DR SERIES DAYLIGHT READABLE, AUTO-DIMMING 3 1/2 DIGIT LED PANEL METERS



- Super-bright LED display is readable in direct sunlight
- Autodim circuitry automatically adjusts display brightness
- External brightness adjustment for customizing intensity
- Large 0.56", easy-to-read red LED display
- 4 differential input ranges provide ±1 count accuracy
- Single +5V supply — less than 1W power consumption

DMS-30DR series digital panel meters offer LED displays that are readable in direct sunlight — no special filters or shading devices are required. Features Autodim circuitry that automatically adjusts the display's brightness to suit viewing environments, ranging from total darkness to full, brilliant sunlight. A user-accessible brightness adjustment pin allows custom intensity settings or display matching in multiple display applications. Available in four differential input voltage ranges: ±200mV, ±2V, ±20V and ±200V. Each meter incorporates a precision, ultra-stable voltage reference and is factory calibrated prior to encapsulation. The meter's 12-pin, component-like, DIP package is both vibration- and moisture-proof, making them ideal for harsh environments. Each meter includes a built-in color filter and bezel, and is easily mounted in either panels or PC boards. Miniature housing size: 0.92H x 2.17W x 0.56"D.

Mfg. Part No.	Input Range	Power Supply (V)	Stock No.	Price Each
● DMS-30DR-0-R-C	± 200mV	5.00	29M7512	64.93
● DMS-30DR-1-R-C	± 2V	5.00	29M7513	64.93
● DMS-30DR-2-R-C	± 20V	5.00	29M7514	64.93
● DMS-30DR-3-R-C	± 200V	5.00	29M7515	64.93

(90095)



TechCast® Product Training

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(148854)

METERS MINI – DC VOLTS

DATel® SELF-POWERED 2-WIRE DC VOLTMETERS



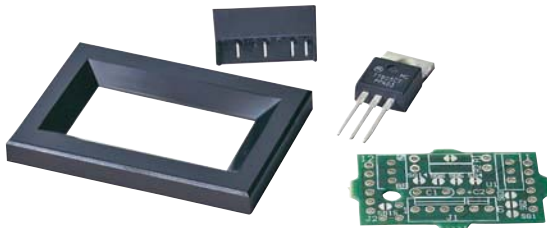
- Self-powered, only two connections required
- Low power consumption
- -25 to +60°C operating temperature
- Subminiature 1.38 x 0.88 x 1.0" package

DMS-20LCD-0/1 and DMS-20PC-3/7 are reverse polarity protected and epoxy-encapsulated. DMS-20LCD-0 and 1 has built-in "Vdc" annunciator and constructed with rugged ABS plastic. DMS-30PC-0/1/3 provide ideal digital replacements for analog panel meters. Accessories available, go online or call Newark.

Mfg. Part No.	Input Range (Vdc)	Display	Stock No.	Price Each	
				1-9	10-24
● DMS-20LCD-0-DCM-C	6.50 to 18.00	3-1/2 digit 0.37" high LED	87K3627	29.97	
● DMS-20LCD-1-DCM-C	8.00 to 50.00	3 digit 0.37" high LED	87K3630	29.97	
● DMS-20PC-0-DCM-C	4.50 to 19.99	3-1/2 digit 0.37" high Red	87K3637	49.94	
● DMS-20PC-0-DCM-B-C	4.50 to 19.99	3-1/2 digit 0.37" high Blue	87K3636	58.93	
● DMS-20PC-1-DCM-C	8.00 to 50.00	3-1/2 digit 0.37" high Red	87K3645	49.94	
● DMS-20PC-1-DCM-B-C	8.00 to 50.00	3-1/2 digit 0.37" high Blue LED	87K3644	58.93	
● DMS-20PC-3-DCM-C	2.00 to 11.00	3 digit 0.37" high Red	87K3658	49.94	
● DMS-20PC-7-DCM-C	-36.0 to -75.0	3 digit 0.37" high Red	87K3661	49.94	

(83956)

DATel® DMS PANEL METER ACCESSORIES



Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	10-24
● 7805SR-C	High-Efficiency Switch Regulator	87K6146	11.72	
DMS-20-CP	DMS-20 Panel Cutout Punch	01K5530	402.22	
DMS-30-CP	DMS-30 Panel Cutout Punch	01K5609	402.22	
● DMS-BZL3C	DMS-20 Bezel Assembly	28M9623	3.99	
● DMS-BZL4-C	DMS-20 Bezel Assembly with EPDM Rubber Gasket	28M0113	6.00	
● DMS-BZL1-C	DMS-30/40 Bezel Assembly	27M1862	3.99	
● DMS-BZL2-C	DMS-30/40 Bezel Assembly with EPDM Rubber Gasket	39M8063	6.00	
● DMS-EB2-C	Multi-Purpose Application Board for DMS-20	16M5642	16.57	
● DMS-EB-C	Multi-Purpose Application Board for DMS-30 and DMS-40 Series Meters	16M5635	16.57	

(83969)

SP SERIES SPLASHPROOF PANEL METERS



- Seal provides splashproof protection
- Ultra-low profile
- Low current: 50mA (LED), 350µA (LCD) typical
- Ultra-high accuracy: 0.1% (±1 count) typical

3½ digit voltmeters with ±200VDC full-scale reading. 12-pin dual in-line connection versions are compatible with competing meters, while lower-cost 8- and 9-pin versions are better suited to new designs. 1.38"W x 0.88"H.

Mfg. Part No.	Display	Digit Height	Pins	Stock No.	Price Each	
					1-9	10-24
SP 100	LED	0.37"	12	36C2858	49.33	46.71
SP 200	LCD	0.38"	12	36C2859	38.25	36.22
SP 300	LED	0.37"	8	36C2860	41.93	39.70

➤ CONTINUED ➤

SP SERIES SPLASHPROOF PANEL METERS (CONT.)

Mfg. Part No.	Display	Digit Height	Pins	Stock No.	Price Each	
					1-9	10-24
SP 400	LCD	0.38"	9	36C2861	33.06	31.30
SP 400-BLUE	LCD	0.38"	9	28K2622	37.58	35.58

(69457)

10 SERIES SNAP-IN PANEL METERS



- 3½-Digit LCD with LED Backlighting, or 3½-Digit LED
- Accuracy: 0.10% (±1 Count) Typical
- Auto-Zero, Auto-Polarity
- 1-Piece, Snap-In Design
- 3.0V to 7.5V or 6.0-15.0VDC Power Supply

Voltmeters feature full-scale reading of ±200mVDC. LCD versions use a supply of 3.0 to 7.5V at 350µA (typ.) or 6.0 to 15.0VDC at 175µA (typ.); LED versions use a 5VDC supply at 50mA (typ.). Mfg. part no. DPM 342 is a loop-powered 4-20mA meter with screw terminals.

VOLTMETERS

Mfg. Part No.	Display	W x H	Digit Height	Stock No.	Price Each	
					1-9	10-24
DPM 1AS-BL	LCD	1.18" x 0.55"	0.22"	72C6419	46.93	43.11
DPM 3AS-BL	LCD	1.57" x 0.79"	0.43"	89C2660	53.32	48.99
DPM 340	LED	1.57" x 0.79"	0.31"	36C2798	53.32	48.99

LOOP-POWERED METER, 4-20mA

Mfg. Part No.	Display	W x H	Digit Height	Stock No.	Price Each
DPM 342	LCD	1.57" x 0.79"	0.43"	36C2799	90.72 83.34

(69455)

BIG-LITTLE LCD 3½-DIGIT PANEL METERS



BL100202-U



BL-300202-01-U

- High-Contrast LCD Readout
- User-Selectable Decimal Point
- Low Power Consumption
- Auto-Polarity (-) Displayed



BL-531201-01-U

BL series digital panel meters feature 0.5" (12.70) high digits on high-contrast LCD. 1999-count maximum. Accuracy: ±0.1% reading +2 count. Resolution: one part in 2000. User-selectable decimal point. Automatic polarity (-) displayed. BL-100 is surface/window mount. BL-130 is bezel mount. Both types have a 13-pin terminal. BL-176 is flat pack DPM with solder pad connections. Order 176-BK bezel kit with mounting hardware separately below. BL-300 and BL-500 are LCD digital panel meters with LED backlighting. Easily read in dark or bright sunlight. Digits are 0.5" (12.70) high. 1999-count maximum. Decimal point user-selectable. Auto polarity. Red or green backlight. Backlight power: 5VDC. Voltage range: 4.7V to 5.25V maximum. Red current: 130mA to 200mADC, 165mA nominal. Green current: 75mA to 160ADC, 115mA nominal. 13-pin terminal. Operating temperature range: -20° to +60°C. BL-300 positive image dark on green background; BL-500 negative image, red segments on dark background.

WINDOW-MOUNT DIGITAL PANEL METERS

Mfg. Part No.	Power	Input	Stock No.	Price Each
BL100202-U	+5V and -5VDC	2VDC	46F164	59.25
BL-100-301-U	+5VDC	200mVDC	46F165	67.05
BL-100-302-U	+5VDC	2VDC	46F166	67.05
BL-100-303-U	+5VDC	20VDC	90F9684	67.05

BEZEL-MOUNT DIGITAL PANEL METERS

Mfg. Part No.	Power	Input	Stock No.	Price Each
BL130201-U	+5V and -5VDC	200mVDC	46F169	63.15
BL130202-U	+5V and -5VDC	2VDC	46F170	63.15
BL-130-301-U	+5VDC	200mVDC	46F171	70.95
BL-130-302-U	+5VDC	2VDC	46F172	70.95
BL130303U	+5VDC	20VDC	90F9686	70.95

FLAT-PACK DIGITAL PANEL METERS

Mfg. Part No.	Power	Input	Stock No.	Price Each
BL176201-U	+5V and -5VDC	200mVDC	46F175	41.25
BL-176-202	+5V and -5VDC	2VDC	46F176	41.25
BL176301-U	+5VDC	200mVDC	46F177	59.25

➤ CONTINUED ➤

METERS MINI – DC VOLTS • METERS MINI – LOOP POWERED • METERS MINI – SINGLE FUNCTION

BIG-LITTLE LCD 3½-DIGIT PANEL METERS (CONT.)

FLAT-PACK DIGITAL PANEL METERS

Mfg. Part No.	Power	Input	Stock No.	Price Each
BL-176-302	+5VDC	2VDC	46F178	59.25
BL176303U	+5VDC	20VDC	90F9688	59.25

GREEN BACKLIGHT, WINDOW-MOUNT DPMs

BL-300-302-01-U	+5VDC	2VDC	87F2572	83.60
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GREEN BACKLIGHT, BEZEL-MOUNT DPMs

BL-330-202-01-U	+5V and -5VDC	2VDC	87F2574	79.70
BL-330-301-01-U	+5VDC	200mVDC	87F2575	87.50
BL330302-01U	+5VDC	2VDC	87F2562	87.50

RED BACKLIGHT, BEZEL-MOUNT DPMs

BL530302-01U	+5VDC	2VDC	87F2536	94.00
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BEZEL KIT

Mfg. Part No.	Description	Stock No.	Price Each
176BK	Bezel kit	89F4226	10.00

(3468)

MODEL CUB4V DC VOLTAGE METER



- Four selectable DC voltage ranges
- Fits DIN standard cut-out 2.68 x 1.30" (68 x 33mm)
- NEMA 4X/IP65 sealed front panel bezel
- 9 to 28VDC powered
- Auto zeroing circuit and built-in scaling provided



3½-digit LCD, positive reflective display with 0.6" high digits and a DIP switch selectable decimal point. Wire connections are made with screw clamp type terminals. LCD negative transmissive with yellow/green or red backlighting also available; *go online or call.*

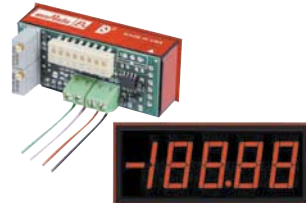
Mfg. Part No.	DC Selectable Voltage Ranges	Stock No.	Price Each
CUB4V-000	0-199.9mV, 1.999V, 19.99V, 199.9V	17M6444	103.00

(94359)

DATel® LOCALLY POWERED 4-20mA INPUT PANEL METERS



DMS-30PC



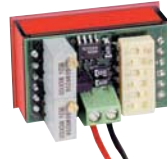
DMA-40PC

- 3½ and 4½ digit resolutions; LED/LCD displays
- 4 LED options including low-current and high-intensity red
- 3 power supply options: +5, +24V "1" or 7.5-32V
- 24V "1" models isolate loop inputs from power ground
- DIP-switch selectable span/offset/decimal points
- On-board gain/span and zero/offset trim pots
- Vibration-resistant package; reliable screw-terminal input connections
- Miniature size: 2.17 x 0.92 x 1.02"

Mfg. Part No.	Display	Description	Stock No.	Price Each
				1-9
DMS-30PC-4/20S-24BS-I-C	3-1/2 digit 0.56" high Blue	+24V isolated supply, high-intensity LED	87K3682	93.88
DMS-30PC-4/20S-24RS-I-C	3-1/2 digit 0.56" high Red LED	+24V isolated supply, high-intensity LED	87K3683	83.90
DMS-40PC-4/20S-24RS-I-C	4-1/2 digit 0.52" high Red LED	+24V isolated supply, standard-intensity LED	87K3694	115.87

(83955)

DATel® LOOP-POWERED 4-20mA PROCESS MONITORS



DMS-20PC



DMS-30LCDA



- Self-powered, no separate supply required
- 3½ and 4½ digit resolutions; LED/LCD displays
- Industry's only loop-powered, full-size LED readouts
- Small packages; Large digits: 0.37"/9.4mm
- DIP-switch selectable span/offset/decimal points
- On-board gain/span and zero/offset trim pots
- Hundreds of different input/readout combinations
- Vibration-resistant package; reliable screw-terminal input connections

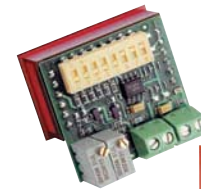
Mfg. Part No.	Description	Stock No.	Price Each
DMS-20PC-4/20S-C	Unipolar reading, 3.5-digit, loop-powered LED meter	16M5699	71.91
DMS-20LCD-4/20S-C	Unipolar reading, 3.5-digit, loop-powered LCD meter	87K3634	53.93
DMS-30LCDA-4/20S-C	Unipolar reading, 3.5-digit, loop-powered LCD meter	87K3667	71.91
DMS-40LCD-4/20S-C	4.5-digit, loop-powered LCD meter	87K3686	110.00

(83949)

DATel® 0-5V AND 0-10V PROCESS MONITORS



- Accepts 0-5V and 0-10V inputs
- Easy to read 0.37"/9.4mm LED display
- High input impedance
- DIP-switch selectable span/offset/decimal points
- On-board gain/span and zero/offset trim pots
- Vibration-resistant package
- Reliable screw-terminal input connections
- Miniature size: 1.38 x 1.25 x 0.95"



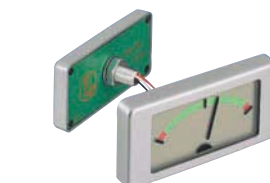
Mfg. Part No.	Display	Description	Stock No.	Price Each
DMS-20PC-0/5-24RL-C	3-1/2 digit, Red, 0.37" high	5.00V to +40V supply	87K3641	77.91
DMS-20PC-0/5-5BS-C	3-1/2 digit, Blue, 0.37" high	5.00V supply	87K3642	81.90

(83960)

EM SERIES SPLASHPROOF ROUND-HOLE FITTING PANEL METERS



7



EMA 1710



EMV 1200
EMV 1200-40



EMV 1125
EMV 1025S-01



EMC 1500



EMT 1900

A splashproof range of LCD meters each fitted with a threaded stud, allowing users to mount the product through a ½" hole. A rubber seal (supplied) provides splashproof protection when fitted between the meter and mounting panel.

Mfg. Part No.	Description	Digits	Digit Ht.	Stock No.	Price Each	
					1-9	10-24
EMA 1710	9-Segment Analog Style Voltmeter	...	..	36C2800	27.38	26.06
EMV 1200	2-wire, 4-25VDC Self-Powered Voltmeter	3	0.5"	36C2804	34.71	33.04
EMV 1200-40	2-wire, 4-40VDC Self-Powered Voltmeter	3	0.5"	28K2619	34.71	33.04
EMV 1125	User Set Voltmeter	3½	0.5"	73C7319	41.65	39.66
EMV 1025S-01	Preset Voltmeter	3½	0.5"	36C2803	34.71	33.04

▶ CONTINUED ▶

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(148830)

METERS MINI – SINGLE FUNCTION • TIMERS – 1/16 DIN

EM SERIES SPLASHPROOF ROUND-HOLE FITTING PANEL METERS (CONT.)

Mfg. Part No.	Description	Digits	Digit Ht.	Stock No.	Price Each	
					1-9	10-24
EMC 1500	Hour Meter	5	0.35"	36C2801	34.71	33.04
EMT 1900	Thermometer	3	0.5"	36C2802	34.71	33.04

(69456)

3½-DIGIT PANEL MINI-METERS

Indicators have 0.56" (14.22) red LED display, 115VAC. Panel space 37.5% of standard ½ DIN meter. Process meters provide zero and span adjustments for readout in engineering units. Thermocouple meters include cold junction compensation, linearization, jumper selection of C or F, thermocouple break detection and analog output (1mV/count). Connection to sensor can be 2, 3 or 4 wire (RTD). Other power options available; go online or call.



Mfg. Part No.	Signal Input	Display Span	Stock No.	Price Each	
				1-2	3-4
205-PA1-R-CO	4-20mA	±1,999	90F8938	185.60	
205-PV3-R-CO	1-5V	±1,999	90F8939	189.95	
205-PV4-R-CO	0-10V	±1,999	90F8940	189.95	
205-JF1-R-CO	"J"/T/C	-346° to +1400°F	90F8941	255.45	
205-KF1-R-CO	"K"/T/C	-157° to +1999°F	90F8943	255.45	

(2301)

3/64 DIN MINI SERIES DIGITAL PANEL METERS



Red Backlight



No Backlight

Mfg. part no. M135 is 3½-digits and Mfg. part no. M145 is 4½-digits. Provides high quality accuracy and reliability in a compact, shallow 1.25" (31.75mm) deep case. Fits 3/64 DIN cutout (22mm x 88mm). The 0.5" high LCD display is available with a negative image, bright red backlight option. User selectable decimal point and display hold. Includes a 12 pin mating connector with 6" wire leads. +9VDC power option available; go online or call.

DC VOLTAGE INDICATORS (5 VDC POWER)

Mfg. Part No.	Input	Backlight	Stock No.	Price Each
M135-0-0-11-0	200mV	None	95F5604	67.39
M135-0-0-12-0	2V	None	95F5605	67.39
M135-0-0-14-0	200V	None	95F5607	67.39
M135-1-0-11-1	200mV	Negative Red	95F5616	89.79
M135-1-0-12-1	2V	Negative Red	95F5617	89.79
M135-1-0-13-1	20V	Negative Red	95F5618	89.79
M135-1-0-14-1	200V	Negative Red	95F5619	89.79
M145-0-0-11-0	200mV	None	92F4197	88.83
M145-0-0-12-0	2V	None	92F4198	88.83
M145-0-0-13-0	20V	None	92F4199	88.83
M145-0-0-14-0	200V	None	92F4200	88.83
M145-1-0-11-1	200mV	Negative Red	92F4191	111.24
M145-1-0-12-1	2V	Negative Red	92F4192	111.24
M145-1-0-13-1	20V	Negative Red	92F4193	111.24
M145-1-0-14-1	200V	Negative Red	92F4194	111.24

DC VOLTAGE INDICATORS (±5VDC POWER)

Mfg. Part No.	Input	Backlight	Stock No.	Price Each
M145-0-1-11-0	200mV	None	92F4203	88.83
M145-0-1-13-0	20V	None	92F4205	88.83
M145-0-1-14-0	200V	None	92F4188	88.83
M145-1-1-11-1	200mV	Negative Red	92F4206	111.24
M145-1-1-12-1	2V	Negative Red	92F4207	111.24
M145-1-1-13-1	20V	Negative Red	92F4208	111.24
M145-1-1-14-1	200V	Negative Red	92F4209	111.24

DC CURRENT INDICATORS (5VDC POWER)

Mfg. Part No.	Input	Backlight	Stock No.	Price Each
M135-0-0-23-0	20mA	None	95F5608	67.39
M135-0-0-24-0	200mA	None	95F5609	67.39
M145-0-0-23-0	20mA	None	92F4201	88.83
M145-0-0-24-0	200mA	None	92F4202	88.83

DC CURRENT INDICATORS (±5VDC POWER)

Mfg. Part No.	Input	Backlight	Stock No.	Price Each
M145-0-1-23-0	20mA	None	92F4189	88.83
M145-1-1-23-1	20mA	Negative Red	92F4210	111.24
M145-1-1-24-1	200mA	Negative Red	92F4211	111.24

(16729)

MICROMITE SERIES PC BOARD MOUNT COUNTERS, TIMERS AND PANELMETERS



TOTALIZING COUNTERS

8-digit, 8mm-high LCD. 2.6-3.4VDC @ 10µA maximum. Count and direction inputs, 5kHz maximum count speed. 20Hz switch bounce filter. Operating temperature: -10°C to +60°C.

Mfg. Part No.	Fig.	Description	H x W x D	Stock No.	Price Each
0799988-412	1	Panel and Remote Reset	0.83 x 1.85 x 0.53" (21 x 47 x 13.5)	48F2119	36.78
0799988-402	1	Remote Reset Only	0.83 x 1.85 x 0.53" (21 x 47 x 13.5)	48F2120	36.78

6-digit, 6mm-high LCD. 2.6-3.4VDC @ 10µA maximum. 10kHz maximum count speed. Remote reset. With supplied bezel, fits 1.16 x 0.87" cutout. Operating temperature -10°C to +60°C.

Mfg. Part No.	Fig.	Description	H x W x D	Stock No.	Price Each
0799986-302	2	Count Up Only	0.70 x 1.09 x 0.26" (17.7 x 27.6 x 6.5)	48F2123	36.78

4-digit, 6mm-high LCD. Powered by replaceable internal 1.5V button cell, 4 years expected life. 12kHz maximum count speed from contact input, reset by removing battery. With supplied bezel, fits 1.16 x .87" cutout. Operating temperature: -10°C to +60°C.

Mfg. Part No.	Fig.	Description	H x W x D	Stock No.	Price Each
0799984-322	3	Count Up Only	0.70 x 1.09 x 0.42" (17.7 x 27.6 x 10.7)	48F2125	19.75

8-digit, 8mm-high LCD. Wiring option for backlighting. 3VDC @ 10µA maximum. 10kHz maximum count speed. Operating temperature -10°C to +60°C.

Mfg. Part No.	Fig.	Description	H x W x D	Stock No.	Price Each
07999F8-302	4	Count Up Only	0.94 x 1.89 x 0.55" (24 x 48 x 14)	48F2126	50.40

ELAPSED TIME INDICATORS

8-digit, 8mm-high LCD. 2.6-3.4VDC @ 10µA maximum. Timing modes: seconds, mins/secs, hrs/mins, hrs/hundredths ±20ppm accuracy. Operating temperature: -10°C to +60°C.

Mfg. Part No.	Fig.	Description	H x W x D	Stock No.	Price Each
0799988-612	1	Panel and Remote Reset	0.83 x 1.85 x 0.53" (21 x 47 x 13.5)	48F2121	35.48

PANEL METERS

5 or 9VDC @ 2mA maximum. 200mV full-scale sensitivity. Precision voltage reference. Programmable decimal point. Easy-to-use annunciators. Automatic zero and polarity. Wiring option for backlighting.

Mfg. Part No.	Fig.	Description	H x W x D	Stock No.	Price Each
07999F3-001	5	14mm-High LCD	1.42 x 2.83 x 0.55" (36 x 72 x 14)	48F2127	64.52
07999F3-002	5	8mm-High LCD	0.94 x 1.89 x 0.55" (24 x 48 x 14)	48F2128	64.52

(33786)

UNIVERSAL VOLTAGE MULTI-FUNCTION TIMERS

Just Added

Autonics Sensors & Controllers

- Realization of wide range of power supply: 24-240 VAC %Hz; 24-240 VDC, 12 VDC (option)
- Various output operations (6 modes)
- Multi time range (16 different time ranges)
- Wide control time range (0.05 sec - 100 hour)
- Easy setting of time, time range, output operation mode
- Easy to check output status by LED indicator



Mfg. Part No.	Time Range	Pins	Stock No.	Price Each
ATBN-24-240	0.05 sec to 100 hour	8	10R5262	38.59
AT11DN-24-240	0.05 sec to 100 hour	11	10R5261	42.17

(148669)



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(148833)

TIMERS – 1/16 DIN

MULTI-MODE TIMERS



Analog Type



Digital Type

- Analog and digital available
- Delayed DPDT or delayed SPDT plus instantaneous SPDT
- 60 msec. max. reset

- 8- or 11-pin termination
- Dimensions: 1.57H x 1.42W x 2.53"D (40 x 36 x 64.2mm)
- UL listed, CE

GT3A is analog setting type, has contacts rated 250VAC/5A, 30VDC/5A max. POWER indicator flashes during time-delay operation, OUT indicator remains on while output on. Life expectancy: 20,000,000 operations mechanical, 100,000 electrical. **GT3D** is digital set type with contacts rated 240VAC/5A, 24VDC/5A max. Back-lit LCD display shows elapsed time or time remaining, LED OUT indicator remains lit while output on. Life expectancy: 10,000,000 operations mechanical, 100,000 electrical. Other time ranges available; go online or call.

ANALOG MODELS

Mfg. Part No.	Contacts	Time Range	Voltage	Pins	Stock No.	Price Each
						1-14
GT3A-2AF20	Delayed SPDT	0.05 sec. to 180 hr.	100-240VAC	8	96F3881	67.46
GT3A-3AF20	Delayed DPDT	0.05 sec. to 180 hr.	100-240VAC	8	96F3884	62.06
GT3F-2AF20	Delayed SPDT + Relay	0.05 sec. to 600 sec.	100-240VAC	8	50B4190	80.27
GT3W-A11AF20N	Delayed DPDT	0.1 sec. to 6 hr.	100-240VAC	8	26H1600	80.27
GT3A-4AF20	Delayed DPDT	0.05 sec. to 180 hr.	100-240VAC	11	96F3887	62.06
GT3A-4AD24	Delayed DPDT	0.05 sec. to 180 hr.	24VAC/VDC	11	92B4668	62.05

DIGITAL MODELS

GT3D-3AD24	Delayed DPDT	0.01 sec. to 99.9 hr.	24VAC/VDC	8	96F3898	107.93
GT3D-4AD24	Delayed DPDT	0.01 sec. to 99.9 hr.	24VAC/VDC	11	96F3901	107.93

SOCKETS AND ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
SR3B-05	11-Blade Snap-Mount DIN Rail Socket	13M2994	7.27	6.55
SR2P-06	8-Pin Snap-Mount DIN Rail Socket	13M2991	4.54	4.09
SR3P-06	11-Pin Snap-Mount DIN Rail Socket	18M9335	7.27	6.55
SR6P-M08G	8-Pin Wiring Socket Adapter	13M3003	7.63	6.87
SR6P-M11G	11-Pin Wiring Socket Adapter	13M3004	15.92	14.34
RTB-G01	Panel Mount Adapter	96F3910	3.88	3.49

(2738)

10A MULTIFUNCTION TIMERS



- Time range: 0.1 sec-600 hrs
- DPDT (delayed outputs) contacts
- Reset time: 0.1 sec. max
- Mechanical life expectancy: 50,000,000 operations

Feature ON-delay/interval or signal OFF-delay/single shot and high-repeat accuracy of $\pm 0.25\%$. Contacts rated 10A resistive at 240VAC/30VDC, 7A inductive at 240VAC/30VDC. 1.575"(40)H x 1.417"(36)W x 2.362"(60)D. 11-blade socket [SR3B-05](#). 8-pin socket [SR2P-06](#). 11-pin sockets [SR3P-05](#) and [SR3P-05C](#).

Mfg. Part No.	Timing Function	Input Voltage	Termination	Stock No.	Price Each
					1-14
RTE-P2AF20	ON/OFF delay, OFF-delay, 1-shot	100-240VAC	11-pin	83H4153	61.70
RTE-P2D12	ON/OFF delay, OFF-delay, 1-shot	12VDC	11-pin	82H8176	61.70
RTE-P2AD24	ON/OFF delay, OFF-delay, 1-shot	24V AC/DC	11-pin	83H4152	61.70
RTE-B2AF20	ON/OFF delay, OFF-delay, 1-shot	100-240VAC	11-blade	83H4147	61.70
RTE-B2D12	ON/OFF delay, OFF-delay, 1-shot	12VDC	11-blade	83H4148	61.70
RTE-B2AD24	ON/OFF delay, OFF-delay, 1-shot	24V AC/DC	11-blade	78H1740	61.70
RTE-P1AF20	On-Delay, Interval, cycle OFF, cycle ON	100-240VAC	8-pin	83H4150	49.89
RTE-B1AF20	On-Delay, Interval, cycle OFF, cycle ON	100-240VAC	11-blade	82H2304	57.77
RTE-P1D12	On-Delay, Interval, cycle OFF, cycle ON	12VDC	8-pin	83H4151	49.89
RTE-P1AD24	On-Delay, Interval, cycle OFF, cycle ON	24V AC/DC	8-pin	83H4149	49.89
RTE-B1D12	On-Delay, Interval, cycle OFF, cycle ON	12VDC	11-blade	83H4146	57.77
RTE-B1AD24	On-Delay, Interval, cycle OFF, cycle ON	24V AC/DC	11-blade	83H3624	57.77

(2740)

ON-DELAY TIMERS



- Delay-on-make (ON delay) function
- DPDT or SPDT + instantaneous SPDT contacts
- Contact rating: 24VDC/120VAC 5A, 240VAC 3A
- 8 time ranges
- Adjustable from 0.1 sec. to 10 min. or 0.1 min. to 10 hours

- Large, clear knob for easy setting
- Repeat error $\pm 0.2\%$ maximum
- Instant monitoring of operational status by LED indicators
- 8-pin, octal base

GE1A series timers are single-function (On Delay) time-delay relays. Extremely easy to configure for a wide variety of set times, the **GE1A series** serves as a simple "plug-and-play" timing solution. Handles settings up to 10 hours. 2 different contact configurations are designed to meet most application requirements. With IDEC's accessories, DIN rail, socket or through-panel (with a clear plastic protective cover) mounting configurations are available.

TIMERS

Mfg. Part No.	Contacts	Time Range	Rated Voltage	Stock No.	Price Each
					1-14
GE1A-B10HA110	Del. SPDT and Inst. SPDT	0.1min. to 10hr.	110-120VAC	83C9524	30.08
GE1A-B10HA220	Del. SPDT and Inst. SPDT	0.1min. to 10hr.	220-240VAC	83C9525	30.08
GE1A-B10HAD24	Del. SPDT and Inst. SPDT	0.1min. to 10hr.	24VAC/VDC	83C9523	30.08
GE1A-B10MA110	Del. SPDT and Inst. SPDT	0.1sec. to 10min.	110-120VAC	83C9527	26.24
GE1A-B10MAD24	Del. SPDT and Inst. SPDT	0.1sec. to 10min.	24VAC/VDC	83C9526	26.24
GE1A-C10HAD24	Delayed DPDT	0.1min. to 10hr.	24VAC/VDC	83C9529	30.08
GE1A-C10HA110	Delayed DPDT	0.1min. to 10hr.	110-120VAC	83C9530	30.08
GE1A-C10MA110	Delayed DPDT	0.1sec. to 10min.	110-120VAC	83C9532	26.24
GE1A-C10MAD24	Delayed DPDT	0.1sec. to 10min.	24VAC/VDC	72C6940	26.24

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
SR6P-M08G	Screw Terminal Socket Adapter for Panel Mounting	13M3003	7.63	6.87
GE9Z-AD	Panel Mount Adapter	83C9534	2.10	1.93
GE9Z-C48	Clear Plastic Dust Cover	83C9535	2.63	2.42
SR2P-06	8-Pin Snap Mount DIN Rail Socket	13M2991	4.54	4.09
SY4S-05	Standard DIN Rail, for use with Optional Mounting Clip SFA-202	13M3022	8.86	7.80
SY4S-05C	Finger-Safe DIN Rail, for use with Optional Mounting Clip SFA-202	13M3023	10.59	9.33
SFA-202	Mounting Clip for use with DIN Rails	16F5300	0.28	0.25

(72441)

ON-DELAY TIMERS



GT5Y series on-delay timers with four selectable time ranges feature control setting set by hand or screwdriver. Power ON and timing and LED indicators. Operating temperature: -10°C to $+50^{\circ}\text{C}$.

100-120VAC

Mfg. Part No.	Time Range	Contacts	Stock No.	Price Each	
				1-14	15-24
GT5Y-4SN1A100	0.1 sec. to 10 min.	4PDT	66F4213	40.24	35.97
GT5Y-4SN3A100	0.1 sec. to 30 min.	4PDT	16F281	40.24	35.97
GT5Y-4SN6A100	0.1 sec. to 60 min.	4PDT	16F5291	40.24	35.97
GT5Y-2SN1A100	0.1 sec. - 10 min.	DPDT	16F280	40.24	35.97
GT5Y-2SN3A100	0.1 sec. to 30 min.	DPDT	30B6301	40.24	35.97
GT5Y-2SN6A100	0.1 sec. to 60 min.	DPDT	30B6306	40.24	35.97

24VDC

GT5Y-4SN1D24	0.1 sec. to 10 min.	4PDT	16F5292	40.24	35.97
GT5Y-4SN3D24	0.1 sec. to 30 min.	4PDT	16F5293	40.24	35.97
GT5Y-4SN6D24	0.1 sec. to 60 min.	4PDT	16F5294	37.92	...

12VDC

GT5Y-2SN1D12	0.1 sec. to 10 min.	DPDT	30B6300	40.24	35.97
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SOCKETS AND ACCESSORIES

Snap on to 1.38" (35mm) DIN rails.

▶ CONTINUED ▶

TIMERS – 1/16 DIN

ON-DELAY TIMERS (CONT.)

Mfg. Part No.	Description	Mounting Clip (Opt.)	Stock No.	Price Each	
				1-24	25-49
● SY4S-51	Panel Mt. Socket w/Solder Terms.	SFA-302	13M3024	1.26	1.11
● SY4S-61	PC Board Mount Socket	SFA-302	13M3025	1.40	1.24
● SY4S-62	PC Board Mount Socket	SY4S-51F1	13M3026	1.40	1.24
● SFA-302	Mounting Clip for SY4S-51, SY4S-61 Sockets		16F5301	0.20	0.18

(3071)

UNIVERSAL INPUT MULTIFUNCTION TIME DELAY RELAYS



822 Relay

TDRPRO Relay

Just Added

821 and 822 Relays:

- Universal voltage input: 12-240VAC/DC
- Multifunction
- 15A at 240VAC; 1/2HP at 120VAC; 1HP at 240VAC
- Timing range: 0.1s to 10days
- Dimensions: 2.6"H x 0.7"W x 3.5"L
- DIN rail mountable
- UL recognized file no. E234203, CE compliant

TDRPRO Relays:

- Universal voltage input: 12-240VAC/DC
- Multifunction
- 12A at 240VAC; 1/3HP at 120VAC; 1/2HP at 240VAC
- Timing range: 0.1s to 9990hrs
- Dimensions: 1.9"H x 1.9"W x 3"L
- UL recognized file no. E43641, CSA certified
- Mates with socket mfg. part no.: 8-pin (70-464-1, 70-750L8-1); 11-pin (70-465-1, 70-750DL11-1)

820 SERIES MODULAR DIN MOUNT RELAYS

Mfg. Part No.	Contacts	Pins	No. of Functions	Stock No.	Price Each	
					1-14	15-24
● 821TD10H-UNI	SPDT	15	DIN-mount	10	10M6579	66.52
● 822TD10H-UNI	DPDT	15	DIN-mount	10	99K5587	108.80

TDRPRO OCTAL PLUG-IN TIME DELAY RELAYS

Mfg. Part No.	Contacts	Pins	No. of Functions	Stock No.	Price Each	
					1-14	15-24
● TDRPRO-5100	DPDT	12	11	10	93K5594	104.03
● TDRPRO-5101	SPDT	12	8	10	93K5595	99.13
● TDRPRO-5102	DPDT	12	8	3	93K5596	104.03

(88936)

1/16 DIN MULTIFUNCTION DIGITAL TIMER



- ON-Delay, Twin Timer, Repeat Cycle, Interval and Cumulative Timing Functions Available
- Large Backlit Negative LCD Display for Dim Lighting Conditions and Wide Angles
- Wide Variety of Timing Ranges from 0.0015 to 9999hr
- Finger-Safe Terminal Sockets and Cover Available
- Supply Voltage: 100 to 240VAC, 50/60Hz or 24VAC/12 to 24VDC, 20% P-P Max. Ripple
- Operating Voltage: 85% to 110% VAC or 90% to 110% VDC
- Power Consumption: Approx. 6.2VA at 264VAC; 5.1VA at 26.4VAC; 2.4W at 12VDC
- Display: 11.5mm High Characters (Present Value); 6mm High Characters (Set Value); 7-Segment Negative Transmissive LCD
- Input Signals: Start, Gate (H5CX-A) and Reset; 1 or 20 ms Input Signal Width



Use the external DIP switch to configure the timer for simple jobs and the front panel switches for more complex settings. Screw terminal and 11-pin socket types have full functionality. Twin timer available on all models. 5A at 250VAC, SPDT contact output. Control output: SPDT contact, rated 5A@250VAC resistive load. Units with transistor output also available. Go online or call. UL listed, UL recognized, CE compliant.

TIMERS

Mfg. Part No.	Supply Voltage	Termination	Stock No.	Price Each	
				1-14	15-24
● H5CX-A AC100-240	100-240VAC	Screw Terminal	29C7981	170.10	162.00
● H5CX-AD AC24/DC12-24	12-24VDC or 24VAC	Screw Terminal	18M7369	181.80	177.30
● H5CX-A11 AC100-240	100-240VAC	11-Pin Socket	18M7370	181.80	177.30
● H5CX-A11D AC24/DC12-24	12-24VDC or 24VAC	11-Pin Socket	74C6498	246.61	240.50
● H5CX-L8 AC100-240	100-240VAC	8-Pin Socket	18M7371	213.72	208.43
● H5CX-L8D AC24/DC12-24	12-24VDC or 24VAC	8-Pin Socket	79C4151	147.42	140.40

➔ CONTINUED ➔

1/16 DIN MULTIFUNCTION DIGITAL TIMER (CONT.)

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	5-14
● Y92F-30	Flush Mounting Adapter, Supplied with Screw Terminal Units	88K2030	9.47	9.24
● P2CF-08-E	8-Pin Track or Flush-Mount Socket	84C9861	13.32	12.99
● P2CF-11-E	11-Pin Track-Mounting, Front-Connecting Socket with Finger-Safe Terminals	98B1828	10.36	9.52
● P3G-08	8-Pin Panel-Mount Socket	88K1975	8.95	8.73
● P3GA-11	11-Pin Track-Mounting, Back-Connecting Socket	88K1976	10.56	10.30
● Y92A-48G	Finger-safe Terminal Cover for P3G-08 or P3GA-11 Socket	88K1286	7.80	7.61

(72211)

1/16 DIN NEMA 4 ON-DELAY TIMER WITH LED DISPLAY



H5CL digital timer provides NEMA 4 protection for use in water washdown and dusty environments. Large, easy-to-read four-digit LED display. ON-delay and cumulative operation functions with eight timing ranges from 0.001 second to 999.9 hours. Wide supply voltage range (100-240VAC or 12-24VDC) with SPDT 3A, 250VDC control output. Four no-voltage inputs include: gate, reset, start, and key protection. Rated NEMA 4 and IEC IP66 when using supplied rubber gasket. Dimensions: 1.89H x 1.89W x 2.87D (48 x 48 x 73). Panel mounting adapter included. Requires 11-pin socket, ordered separately; go online or call. UL recognized, CSA certified, CE compliant.



Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	5-14
● H5CX-A11 AC100-240	100-240VAC Timer	18M7370	181.80	177.30
● H5CX-AD AC24/DC12-24	12-24VDC Timer	18M7369	181.80	177.30

(3019)

1/16 DIN ANALOG SET ON-DELAY TIMERS



- Analog-Set Dial
- Field-Selectable Time Ranges from 0.05 Second to 300 Hours or 0.1 Second to 600 Hours
- Select 2-, 4-, or 6-Function Models to Handle Most Applications
- Wide-Range AC/DC Supply Voltage Models (AC100-240/DC100-125 or AC24-48/DC12-24)
- NPN Input; PNP Available
- Short, 80mm (3.15") Panel Mounting Depth with Socket Allows Space-Efficient Control Panel Design
- 8- or 11-Pin Mounting
- DPDT 5A@240VAC/30VDC Relay Output
- Choice of Light Gray, Medium Gray, or Black Panel Covers to Match Panel Aesthetics



Choose ON-delay, Repeat Cycle, Interval, and One-shot timing functions with 8-pin model and these functions plus Signal ON/OFF delay, Signal OFF-delay with 11-pin model. Universal supply voltage (AC100-240/DC100-125) OR (AC24-48/DC12-24), short, 80mm (3.15 in) panel depth with socket. Socket for mounting, ordered separately online or call. UL recognized, CSA certified, CE compliant.

100-120VAC SUPPLY VOLTAGE

Mfg. Part No.	Pins	No. of Timing Functions	Time Range	Price Each	
				1-14	15-24
● H3CR-H8L AC100-120 S	8	2	0.05 sec. to 12 sec.	52F4142	112.32 105.11

100-240VAC SUPPLY VOLTAGE

● H3CR-F AC100-240	11	2	0.05 sec. to 30 hr.	38B610	117.01 109.50
● H3CR-F8 AC100-240	8	2	0.05 sec. to 30 hr.	93K7586	117.01 109.50
● H3CR-F8-300 AC100-240	8	2	1.2 sec. to 300 hr.	52F4140	117.01 109.50

100-240VAC/100-125VDC SUPPLY VOLTAGE

● H3CR-A8-AC100-240/DC100-125	8	4	0.05 sec. to 300 hr.	94B1633	74.76 69.97
● H3CR-A8E AC100-240/DC100-125	8	4	0.05 sec. to 300 hr.	88K1948	106.07 99.26
● H3CR-A AC100-240/DC100-125	11	6	0.05 sec. to 300 hr.	95B5375	101.41 94.91

24-48VAC/12-48VDC SUPPLY VOLTAGE

● H3CR-A AC24-48/DC12-48	11	6	0.05 sec. to 300 hr.	93B4352	101.41 94.91
● H3CR-A8 AC24-48/DC12-48	8	4	0.05 sec. to 300 hr.	94B1639	74.76 69.97

(3013)

TIMERS – 1/16 DIN • TIMERS – 24 HR

1/16 DIN DIGITAL SET
TIMER WITH BAR
GRAPH DISPLAY



H3CA timer offers accurate digital thumbwheel setting and easy-to-read LCD bar graph display for time remaining and LCD indicator of output status. Eight field-selectable operation modes include ON-delay, signal interval/OFF-delay I, repeat cycle, signal OFF-delay (I and II), interval, cycle, and signal ON-delay/OFF-delay. Seven selectable timing ranges from 0.1 second to 9990 hours. Universal voltage 24-240VAC or 12-240VDC, control output SPST 3A, 250VAC. Includes three no-voltage inputs for start, reset, and gate. Dimensions: 1.89H x 1.89W x 3.50"D (48 x 48 x 89). Requires 11-pin socket, ordered separately; go online or call. UL recognized, CSA certified.



Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
● H3CA-A	Digital Set Multi-Mode Timer	18M7364	138.01	129.15

(3015)

P&B 10A MULTIFUNCTION
TIME-DELAY RELAY



DPDT multifunction time-delay relay for plug-in or panel mounting. Five timing functions selectable via rotary switch. 0.1 sec. to 9,990 hr. timing range. Fixed input type (120VAC ±15%). Rated 10A @ 30VDC/277VAC resistive. 1/16 DIN style enclosure with 11-pin octal plug-in base. Thumbwheel switches for programming delay time. Outline dimensions in inches (mm): 2.83 (71.9)L x 1.88(47.8)H x 1.88(47.8)W. Use SSA-24C667 mounting clip to secure relay in panel-mount applications. UL recognized E22575, CSA certified LR15734.



RELAY

Mfg. Part No.	Nominal Voltage	Power Consumption	Stock No.	Price Each		
				1-24	25-49	50-99
CNM5	120VAC	3VA @ 120VAC	93F1051	76.29	71.53	68.65

11-PIN OCTAL SOCKETS

Mfg. Part No.	Dimensions (in)	Mounting	Stock No.	Price Each		
				1-24	25-49	50-99
● 27E123	2.322 x 2.385 x .925	Screw	57F3432	5.17	4.75	4.38
● 27E892	2.035 x 2.332 x .970	Screw, DIN Mount	46F3588	7.55	6.93	6.39

(2711)

P&B 10A PROGRAMMABLE
TIME-DELAY RELAYS



CNS Series are economical, multi-functional, programmable, time-delay relays housed in 1/16 DIN style enclosures. 8 programmable timing modes (4- on 8-pin models). Timing function and range selected by DIP switch, and actual delay time is set with adjustment knob and calibrated dial. Delay selectable from 0.1 sec. to 100 min. DPDT contacts rated 10A @ 240VAC/30VDC. Fixed input type 3VA @ 120VAC. Transient and reverse voltage protection. Temperature range: -10°C to +55°C. UL recognized, CSA certified.



RELAYS

Mfg. Part No.	Input Voltage	Pins	Stock No.	Price Each		
				1-24	25-49	50-99
CNS-35-72	120VAC	8	90F7645	71.99	67.49	63.60
CNS-35-76	120VAC	11	90F7646	71.99	67.49	63.60
CNS-35-92	24-240VAC/VDC	8	90F7647	68.20	63.93	61.36
CNS-35-96	24-240VAC/VDC	11	90F7648	81.31	76.23	73.16

SCREW TERMINAL OCTAL SOCKETS

27E891 and 27E892 are DIN rail snap mountable; for use with mounting track 24A110. For use with mounting clip SSA-24C667 for securing relay in panel-mount applications.

Mfg. Part No.	Pins	Mounting	Dimensions (in)	Stock No.	Price Each		
					1-24	25-49	50-99
● 27E122	8	Screw Terminal	2.385 x 1.572 x .925	57F3431	4.68	4.29	3.95
● 27E891	8	Screw Terminal, DIN Mount	2.010 x 1.575 x .970	46F3587	5.52	5.03	4.61
● 27E123	11	Screw Terminal	2.322 x 2.385 x .925	57F3432	5.17	4.75	4.38
● 27E892	11	Screw Terminal, DIN Mount	2.035 x 2.332 x .970	46F3588	7.55	6.93	6.39

(13928)

P&B 10A MULTIFUNCTION,
DIGITAL TIME-DELAY
RELAY/COUNTER



- 1/16 DIN enclosure
- 10 programmable timing modes
- 2 counting modes
- Thumbwheel switches for digital programming
- LCD digital readout
- 11-pin octal plug-in base
- Time-delay from 0.1sec to 9990 hr.



CNT Series are multi-functional, digitally programmable, time-delay relays/counters. DPDT, silver-cadmium oxide alloy contacts, rated 10A @ 240VAC/30VDC. Temperature range: -10°C to +55°C. Outline dimensions in inches (mm): 2.83 (71.9)L x 1.88 (48.8)H x 1.88 (47.8)W. UL recognized, CSA certified.

RELAYS

Mfg. Part No.	Input Voltage	Stock No.	Price Each		
			1-24	25-49	50-99
CNT-35-26	12VDC	90F7642	95.97	89.97	86.35
CNT-35-76	120VAC	90F7643	95.97	89.97	86.35
CNT-35-96	24-240VAC/VDC	90F7644	111.30	104.35	100.15

11-PIN OCTAL SOCKETS

For use with mounting clip mfg. part no. SSA-24C667 for securing relay in panel-mount applications.

Mfg. Part No.	Dimensions (in)	Mounting	Stock No.	Price Each		
				1-24	25-49	50-99
● 27E123	2.322 x 2.385 x .925	Screw-Terminal	57F3432	5.17	4.75	4.38
● 27E892	2.035 x 2.332 x .970	Screw Terminal, DIN Rail	46F3588	7.55	6.93	6.39

(3089)

EAGLE SIGNAL BRAND B856
SERIES MULTIFUNCTION TIMERS



Feature a compact 1/16 DIN housing, precise digital setting, versatile functionality, and straightforward button-per-digit interface. Programmable to perform On-Delay, Off-Delay, Interval, or Repeat Cycle timing functions. Capable of performing the function of 2 separate timers. DPDT relay contact output. All programming is done from the front panel. Display: dual-line LCD.



Mfg. Part No.	Description	Stock No.	Price Each
			1-5
B856-500	Timed DPDT Output	91F3079	134.57
B856-511	1 Timed, 1 Instantaneous SPDT Output	91F3080	143.12

(15427)

DIGITAL DAILY
TIMERS



- Precise Control of Both Regular and Special (e.g., Half-day Operation) ON/OFF Times
- Can be Set for Timed or Pulsed Operation and for Multiple-day Operation
- 2 Mounting Types Available: Panel or Track Mounting
- Timing Chart Displayed for At-a-glance Confirmation
- DIN-sized 1/16 (48 x 48mm)
- SPST-NO 15A Relay Output
- Supply Voltage: 100-240VAC, 50/60Hz
- Power Consumption: Approximately 5VA



NEMA 4 cover mfg. part no. Y92A-48N available; go online or call. UL recognized, CSA approved, SEV approved.

Panel Mount

Mfg. Part No.	Mounting	Outside Dimensions H x W x L" (mm)	Stock No.	Price Each
				1-9
● H5FB	Panel	1.89 x 1.89 x 3.41 (48 x 48 x 86.7)	88K1950	265.13
● H5F-KB	Surface/Track	3.93 x 1.97 x 2.87 (99.8 x 50 x 73)	88K1110	203.66

(51887)

TIMERS – 24 HR • TIMERS – DIN RAIL/SLIM

PROGRAMMABLE AM/PM WEEKLY TIMER



- AM/PM Display
- 24 Program Steps
- A Different Program Possible Each Day
- Over Midnight Setting Possible
- 2 Independent 15A Control Circuits with Manual Mode
- Automatic or Manual Operation Following Power Failure
- Field-adjustable ON/OFF, Cycle, and Pulse Input
- Easy-to-use Prompted Programming
- Wide Supply Voltage Range
- 10-year Battery Backup for Memory Protection
- DIN Size 72 x 72mm
- Contact Type: 2 SPST-NO Time-limit Contacts with Manual Override Switches
- Cycle Length: 1-minute to a Full Week



Surface/Track Mount

Ideal for HVAC, lighting, and other system operations in commercial or industrial environments. UL recognized, CSA certified, SEV approved. Hard plate cover **Y92A-72C**, track mounting adapter **Y92F-90**, and NEMA 4 cover **Y92A-72N** available; go online or call.

Mfg. Part No.	Mount	Outside Dimensions H x W x L" (mm)	Stock No.	Price Each		
				1-5	6-14	15-24
● H5SWFB2 <small>(3042)</small>	Surface/track	4.99x2.83x2.68 (126.7x72x68)	80K0833	247.43	231.64	221.11

PROGRAMMABLE 24-HOUR TIMER



H5L series programmable 24-hour weekly timer features easy front-panel set-up, 24-hour (military time), 7-day programming, and large, easy-to-read LCD display. Unit offers 2 independent SPST 15-amp circuits (with manual override switches) and wide operating voltage: 100-240VAC. Ideal for HVAC, lighting, and other system operations in commercial or industrial environments. Programs may be tailored to daily routines within single 24-hour periods. Built-in 10-year battery protects programming. Unit may be panel, surface or DIN rail mounted. Dimensions: 3.8H x 3.8W x 2.25"D (96 x 96 x 57mm). UL recognized, CSA certified.



Mfg. Part No.	Stock No.	Price Each			
		1-5	6-14	15-24	25-49
● H5L-A <small>(3040)</small>	52F4158	226.42	216.19	205.96	197.00

MINI DIN RAIL MOUNT TIME-DELAY RELAYS



- Compact DIN rail mount housing
- Economically priced
- Universal power supply
- 0.1 seconds to 100 hours



Mini D-Series housed in 3H x 0.7W x 2"D housing (except the DMB71, which is 1.4W"). Snaps onto DIN rail. Provides an 8A SPDT output (with the exception of the DMB71, which provides a 5A DPDT output). All timers (with the exception of the DBB series) provide 6-switch selectable timing ranges from 0.1 seconds to 100 hours. Timing functions are listed below. The DMB series multifunction timers offer the following switch selectable choice of delays: delay-on-operate, interval, interval with external trigger, double interval, delay on release, and symmetrical recycler. Repeat accuracy: $\leq 0.2\%$. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Timing Function	Supply Voltage	Stock No.	Price Each	
				1-4	5-9
● DAA51CM24	On Delay	24-230VAC or 24VDC	05M4078	62.54	59.30
● DBB51CM2410S	Off Delay (1 to 10 Seconds)	24-230VAC or 24VDC	89C4336	93.80	88.94
● DMB51CM24	Multi-Function	24-230VAC or 24VDC	05M4092	72.96	69.18
● DMB51CW24	Multi-Function (12VDC)	24-230VAC or 12VDC	05M4093	85.50	80.55
● DCB51CM24	Asymmetrical Recycler	24-230VAC or 24VDC	89C4354	133.17	126.27
● DMB71DW24 <small>(60577)</small>	Multi-Function	12-240VAC/DC	26K5686	126.23	119.69

CHRONOS II TIMERS



- Multi-function or mono-function
- Multi-range (7 ranges, available options)
- SPDT relay output: 10A - 250V, or DPDT (Octal Plug-In Style)
- Screw or spring terminals (17.5 and 22.5 mm)
- LED status indicator
- 3-wire sensor control option



8- and 11-pin plug-in models are 35 x 35 x 79mm. 17.5mm DIN rail models are 17.5 x 81 x 69mm. 22.5mm DIN rail models are 22.5 x 75 x 99mm. All Chronos II timers rated at 10A@250VAC. Time range is selectable from 0.1 seconds to 100 hours.

17.5mm DIN MOUNT

Mfg. Part No.	Supply Voltage	Function	Con-tacts	Current Rating (A)	Stock No.	Price Each	
						1-14	15-24
● 88 826 135	24VDC, 24-240VAC	Delay-On-Break	SPDT	10	91B6258	52.12	48.93
● 88826115	24VDC, 24-240VAC	Delay-On-Make	SPDT	10	17M8546	42.99	40.36
● 88826044	24-240VAC	Interval	SPDT	0.7	28C6588	42.99	40.36
● 88826105	24VDC, 24-240VAC	Multifunction	SPDT	10	17M8545	62.39	58.57
● 88826503	12VAC/DC	Multifunction	SPDT	10	28C6595	75.11	70.51
● 88826004	24-240VAC	Multifunction	SPDT	0.7	28C6586	62.39	58.57
● 88 826 155	24VDC, 24-240VAC	Repeat Cycle	SPDT	10	17M8532	53.04	49.79
● 88826054	24-240VAC	Repeat Cycle	SPDT	0.7	17M8543	66.20	62.14
● 88 826 125	24VDC, 24-240VAC	One Shot	SPDT	10	17M8531	52.12	48.93

22.5mm DIN MOUNT

● 88 865 115	24VDC, 24-240VAC	Delay-On-Make	SPDT	10	17M8533	43.22	40.58
● 88 865 215	24VDC, 24-240VAC	Delay-On-Make	DPDT	10	91B6332	62.39	58.57
● 88865155	24VDC, 24-240VAC	Repeat Cycle	SPDT	10	17M8551	55.69	52.28
● 88865265	24VDC, 24-240VAC	Off-Delay	DPDT	10	17M8552	87.81	82.44

8-PIN OCTAL PLUG-IN

● 88 867 135	24VDC, 24-240VAC	Delay-On-Break	SPDT	10	17M8537	53.85	50.55
● 88867215	24VDC, 24-240VAC	Delay-On-Make	DPDT	10	17M8553	51.41	48.27
● 88 867 105	24VDC, 24-240VAC	Multifunction	SPDT	10	17M8536	62.39	58.57
88 867 100	12VAC/DC	Multifunction	SPDT	10	91B6339	61.56	57.79
88867801	24VDC, 24-240VAC	Repeat Cycle	SPDT	8	28C6621	62.39	58.57
● 88867155	24VDC, 24-240VAC	Repeat Cycle	SPDT	10	68K9127	58.92	55.31

11-PIN OCTAL PLUG-IN

Mfg. Part No.	Supply Voltage	Function	Con-tacts	Current Rating (A)	Stock No.	Price Each	
						1-14	15-24
88867435	24VDC, 24-240VAC	Delay-On-Break	DPDT	10	90B2436	62.39	58.57
● 88 867 415	24VDC, 24-240VAC	Delay-On-Make	DPDT	10	17M8536	51.65	48.49
● 88 867 305	24VDC, 24-240VAC	Multifunction	DPDT	10	17M8539	87.81	82.44
● 88 867 300	12VAC/DC	Multifunction	DPDT	10	17M8538	90.12	84.61
● 88 867 455 <small>(52485)</small>	24VDC, 24-240VAC	Repeat Cycle	DPDT	10	17M8541	82.03	77.01

ANALOG MULTIFUNCTION SOLID-STATE TIMERS



- High Immunity to Inverter Noise
- Programmable Contact Enables Building of Self-Holding Relay Circuit
- Wide-Range Time Setting of 0.10s to 120h
- Finger Protection Terminal Block
- Enables Easy Sequence Checks Through Instantaneous Outputs for a Zero Set Value at Any Time Range
- UL Recognized, CSA Certified, CE Compliant



Series H3DE analog set multifunction timers have a slim design for track mounting. Wide AC/DC power supply range of 24 - 230VAC/DC minimizes inventory. To cover a wide range of applications, there are 8 operating modes for H3DE-M and 4 operating modes for H3DE-S.

OPERATING MODES

H3DE-M2 & M1	H3DE-S2 & S1
A: ON-Delay (Signal or Power)	A: ON-Delay
B: Flicker OFF Start (Signal or Power)	B: Flicker ON Start
B2:Flicker ON Start (Signal or Power)	E: Interval
C: Signal ON/OFF Delay	J: One-Shot
D: Signal OFF Delay	
E: Interval (Signal or Power)	
G: Signal ON/OFF Delay	
J: One-Shot (Signal or Power)	

CONTINUED

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

TIMERS – DIN RAIL/SLIM • TIMERS – ELAPSED

ANALOG MULTIFUNCTION SOLID-STATE TIMERS (CONT.)

Mfg. Part No.	Output	Stock No.	Price Each
			1-5
● H3DE-M1AC/DC24-230	SPDT	18M7365	55.66
● H3DE-M2AC/DC24-230	DPDT	19C7107	66.79
● H3DE-S1AC/DC24-230	SPDT	18M7366	42.30
● H3DE-S2AC/DC24-230	DPDT	19C7109	55.66

(61878)

S1DXM-M SERIES TIMERS



Panasonic Electric Works Corporation of America



Features

- 12 Time Ranges Available
- S1DXM-M Multifunctional
- Useable with HJ Relay Terminal Socket
- Space-Saving Design - 22.1 x 51.7 x 29.5mm
- UL Recognized, CSA Approved
- Easy and Safe Handling
- Wide Time Range
- Indicator LEDs Provide Status at a Glance
- Flush Mountable with Accessories

The S1DXM is a small, low-cost time delay relay available in Power On-Delay, Power Flicker, Power One-Shot, and Power One-Cycle configurations. Other features include flush mount capability, quickset dial, LED status indicators, and more.

Mfg. Part No.	Contacts	Time Range	Operating Voltage	Stock No.	Price 1-14
● S1DXM-M2C10M-DC24V	DPDT	0.05 sec to 10 min	24 VDC	08N3186	33.10
● S1DXM-M2C30M-DC24V	DPDT	0.2 sec to 30 min	24 VDC	08N3188	33.10
● S1DXM-M2C60M-DC24V	DPDT	0.5 sec to 60 min	24 VDC	08N3190	33.10
● S1DXM-M2C10H-DC24V	DPDT	0.05 min to 10 hr	24 VDC	08N3184	35.31
● S1DXM-M2C10M-AC120V	DPDT	0.05 sec to 10 min	100-120 VAC	08N3185	33.10
● S1DXM-M2C30M-AC120V	DPDT	0.2 sec to 30 min	100-120 VAC	08N3187	33.10
● S1DXM-M2C60M-AC120V	DPDT	0.5 sec to 60 min	100-120 VAC	08N3189	33.10
● S1DXM-M2C10H-AC120V	DPDT	0.05 min to 10 hr	100-120 VAC	08N3183	35.31

(115549)

PM SERIES ANALOG TIMERS



Panasonic Electric Works Corporation of America



DIN48



DIN24



- Multiple time ranges — 1 s to 500 h (Max.)
- Built-in Screw terminals
- 0 setting instantaneous output operation
- **PM4H:**
 - 100-240V AC free-voltage input, 48-125V DC type available
 - Short body — 62.5mm 2.461 inch (screw terminal type)
 - Front panel of IP65 type is protected against water-splash and dust
 - Screw terminal type is used for easy wiring and reducing additional cost for accessories
- 8 different operation modes: (PM4H-A)
- **PM5S:**
 - 24-240V AC/DC free-voltage input
 - Slim body — DIN 22.5 mm .886 inch
 - 6 different operation modes: (PM5S-A)

DIN48 SIZE TIMERS

Mfg. Part No.	Time Range	Operating Voltage	Operation Mode	Stock No.	Price Each
● PM4HA-H-24V	1 sec. to 500 hr.	24VAC	Multiple	16F1376	41.53
● PM4HA-H-AC240V	1 sec. to 500 hr.	100-240VAC	Multiple	10C8923	42.13
● PM4HS-H-AC240V	1 sec. to 500 hr.	100-240VAC	Power ON-delay	10C9027	43.27

DIN24 SIZE TIMERS

● PM5S-A-24-240V	1 sec. to 500 hr.	24-240VAC	Multiple	93B3742	52.52
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(115548)

P&B MULTIFUNCTION SOLID-STATE TIME-DELAY RELAYS



- 15 time ranges
- 0.05 sec. to 100 hour time ranges
- Contacts rated 3A @ 250VAC
- Breaking capacity is 2000VA
- DIN rail mountable
- 24VDC nominal input voltage

3RP Series relays tolerance is $\pm 5\%$ of full scale value. Reset time: 150ms. Contacts: silver tin oxide. Contact expected mechanical life: 200,000 operations at 3A, 250VAC, AC-15. Rated DC power supply: 2W. Rated AC power: 6VA. Temp. range: -25° to $+60^{\circ}$ C for operating and -40° to $+80^{\circ}$ C for storage. Mechanical life: 30×10^6 operations. Max. switching rate at a rated load: 2500 ops/h. Mounts directly on 35mm DIN track with screw terminal termination. Switch adjustable available; go online or call.

MULTIFUNCTION

Mfg. Part No.	Nominal Voltage	Contacts	Functions	Stock No.	Price Each	
					1-24	25-49
3RP1505-1AQ30	24VAC/VDC, 100-127VAC	SPDT	1-8	48F4079	148.18	137.66
3RP1505-1BQ30	24VAC/VDC, 100-127VAC	DPDT	9-24	48F4081	171.57	159.39

(37870)

ELAPSED TIME INDICATORS



Elapsed time indicators are ruggedly constructed true-time mechanisms for recording the ON time of electrical equipment and machinery. 7-digit display has capacity of 99999.99 hrs. 1.9"W x 1.6"L. UL recognized, CSA certified.

INDICATORS

Mfg. Part No.	Input Voltage	Input Type	Stock No.	Price Each		
				1-24	25-49	50-99
● 99761715	115VAC/60Hz	On input power	96F1859	63.69	57.67	53.50
● 99761718	24VAC/60Hz	On input power	17M8658	60.50	54.78	50.82

(2842)

LCD ELAPSED TIMERS/HOUR METERS



E42DIR



E42DI24

The **E42DIR** (round) and **E42DI24 series** (rectangular) are solid-state hour meters that record and display up to 99,999.9 hours, roll over and continue timing. Feature an EEPROM that can retain data for 25+ years. Operating temperature: 40° F to 185° F (-40° C to 85° C). Able to function in harsh conditions of vibration, shock, moisture and dust. Feature minimal power consumption, compact behind-panel depth and operating indicator (hourglass icon). Size: 2.30W x 1.125"D (round); 0.89H x 2.09W x 0.86"D (rectangular).

Mfg. Part No.	Description	Stock No.	Price Each
● E42DIR48230	Round, 48-150VDC, 100-230VAC	89M5166	47.22
E42DIR1260	Round, 12-48VDC, 20-60VAC	03C3338	47.22
● E42DI2448230	Rectangular, 48-150VDC, 100-230VAC	18C2536	47.22
● E42DI241260	Rectangular, 12-48VDC, 20-60VAC	89M5167	47.22

(60973)

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(148843)

TIMERS – ELAPSED

HOBBS 20000 SERIES AC HOUR METERS



Honeywell
Sensing and Control

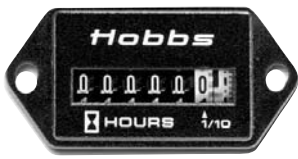


Fig. 1



Fig. 2

Specification:

- Accuracy: 0.02%
- Records up to 99,999 hours
- Automatic recycle to zero
- Operating frequency: 60Hz
- Power rating: 3.0W
- Operating temperature: -54°C to 68°C

- Weight: 3oz
- Lens material: 3-screw mount: Glass, 2-screw mount: Polycarbonate
- Number size: 0.12" (3mm)

Features:

- Polycarbonate, shock resistant, tamper proof case
- Totally sealed
- Single phase, synchronous, permanently lubricated motor

These deluxe AC meters are totally sealed and benefit from a design which integrates the motor and frame into substructure.

Mfg. Part No.	Fig.	Operating Voltage (VDC)	Number of Digits	Termination	Stock No.	Price Each	
						1-14	15-24
020001 17	1	108-132	6	Screw	64K2417	32.66	
020017 14	2	108-132	6	Screw	64K2418	36.02	

(85745)

HOBBS 85000 SERIES QUARTZ PLUS HOUR METERS



Honeywell
Sensing and Control



Fig. 1



Fig. 2



Fig. 3

Specification:

- 10,000hour version standard, with automatic recycle to zero
- Temperature range: -40°C to 85°C
- Quartz accuracy: ±200ppm, ±0.02%
- Precision built relay driven odometer

- Standard terminals: 1/4" male blade
- Lens material: Glass
- Case material: Polyester
- Number size: 0.12" (3mm)

Features:

- Custom CMOS integrated circuit
- Indicates operating time in hours and tenths, plus has a running indicator

- Totally sealed
- Excellent vibration and shock
- Battery system voltages: 6, 12, 24, 36, 48, 60, 72 and 80VDC



Fig. 4

The Quartz Plus features a highly reliable drive mechanism, an improved odometer gear train, and a snap-together integrated chassis. The chassis fits into a shockproof, totally sealed case made of an engineered plastic that is impervious to acids and solvents.

Mfg. Part No.	Fig.	Operating Voltage (VDC)	Number of Digits	Mounting	Stock No.	Price Each	
						1-14	15-24
085331 12	1	6.5-16	5	Screw	64K2426	61.97	58.92
085094 12	1	10-80	5	Screw	64K2424	51.95	49.40
085097 02	2	10-80	5	Screw	64K2425	56.63	53.85
085342 03	3	10-80	5	Panel	64K2427	62.27	59.21
085093 03	4	10-80	5	Panel	64K2423	66.36	63.10

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each	
				1-14	15-24
023944 01	Angle Bracket	Two-screw flange AC and DC rectangular meters	64K2419	4.37	4.15

(85744)

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(148886)

HONEYWELL HOBBS 98000 SERIES LCD HOUR METERS

Honeywell
Sensing and Control



Features:

- Totally sealed from moisture and dirt
- Direct replacement current hour meter
- No battery backup needed
- Fits in existing panel openings
- Snap-in retainer mount combines easy installation with rugged design
- Compact depth

Specification:

- Run accuracy: ±200ppm; ±0.02%
- Start time: Maximum 1 second
- 6-digit display
- Digit height: 6mm
- Termination: 1/4" blade
- Operating temperature: -40°C to 85°C
- Display: 0 to 99,999.9 (hours); 0 to 999,999 (counter)

The Hobbs 98000 series LCD hour meters provide a large easy-to-read display in a conventional size package.

Mfg. Part No.	Operating Voltage (VDC)	Number of Digits	Termination	Stock No.	Price Each	
					1-14	15-24
098313 12	9-64	6	2 terminal	64K2429	35.84	34.13
098323 92	9-64	6	3 terminal with enable	64K2430	37.51	35.71
098303 92	9-64	6	4 terminal resettable	64K2428	38.09	36.27

(85743)

AC ELAPSED TIME INDICATOR

This non-resettable running time meter features a 5-digit readout enclosed in a glass and metal housing. Indicates hours and tenths. Tamperproof no-reset feature. Dust and moisture resistant. Panel mount with 4 holes; 1.670" diameter panel cutout. Voltage: 120V/60Hz, -12°C to +55°C. **Mfg. part no. ED72-12** is UL recognized; **mfg. part no. ED71-12** is UL recognized and CSA certified. **Series 7010** hermetically sealed versions also available; *go online or call.*



Mfg. Part No.	Lead Configuration	Stock No.	Price Each	
			1-24	
● ED7212	11 1/4"	31C7201	262.44	
● ED7112	Glass-Fused Solder Terminals	40C1626	216.95	

(3084)

H/CH SERIES TIME DELAY TIMERS

External wiring is connected to terminal strip. Isolated SPDT load switch rated 10A non-inductive, 120VAC. **H series** have clutch motor, repeat accuracy ±1 full scale, and reset time 5% of dial setting. **CH series** have external clutch, repeat accuracy ±1-1/2% full scale, and reset time 0.5 second at max. setting. Both provide automatic reset upon removal of power and are panel-mounted. UL recognized, CSA certified.



CH Series

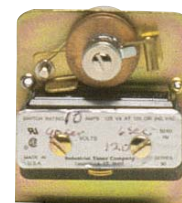


Mfg. Part No.	Time Cycle	Dial Div.	Stock No.	Price Each	
				1-2	
● H-15S	15 sec.	0.25 sec.	24F296	206.40	
● CH-1M	1 min.	1 sec.	24F297	272.00	

(2901)

90 SERIES DELAY TIMERS

For applications requiring infrequent adjustment. Isolated SPDT load switch, rated 10A, non-inductive, 120V/60Hz. Repeat accuracy: +1% full scale. Reset time: 5% of set time delay. Auto-reset upon power removal. UL recognized, CSA certified. 6, 30 and 60 second time cycles versions are available; *go online or call.*

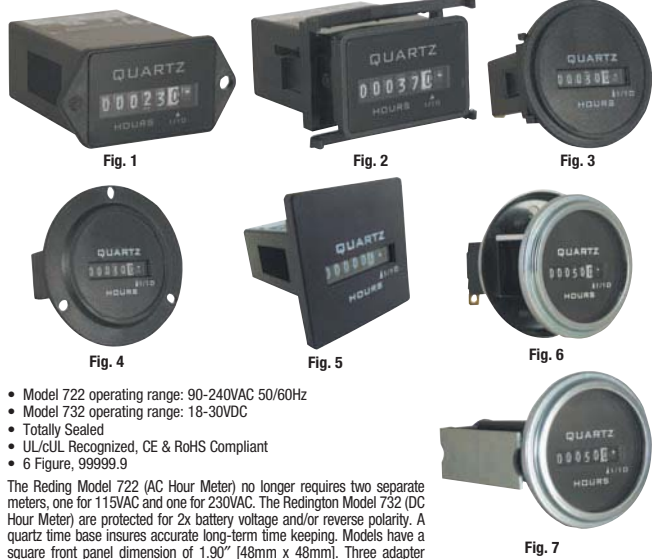


Mfg. Part No.	Setting		Stock No.	Price Each	
	Max.	Min.		1-2	
90-15S	15 sec.	1.5 sec.	24F1844	130.41	
90-90S	90 sec.	9 sec.	24F1847	239.09	

(2903)

TIMERS – ELAPSED

MODEL 722 AND 732 ELECTROMECHANICAL TOTALLY SEALED HOUR METERS



- Model 722 operating range: 90-240VAC 50/60Hz
- Model 732 operating range: 18-30VDC
- Totally Sealed
- UL/cUL Recognized, CE & RoHS Compliant
- 6 Figure, 99999.9

The Reding Model 722 (AC Hour Meter) no longer requires two separate meters, one for 115VAC and one for 230VAC. The Redington Model 732 (DC Hour Meter) are protected for 2x battery voltage and/or reverse polarity. A quartz time base insures accurate long-term time keeping. Models have a square front panel dimension of 1.90" [48mm x 48mm]. Three adapter panels are also available for fitting additional panel dimensions.

AC HOUR METERS

Mfg. Part No.	Fig.	Operating Voltage (VAC)	Mounting	Meter Shape	Stock No.	Price Each
● 722-0001	1	90-240	2-Hole Panel	Rectangular	78H0980	25.00
● 722-0002	2	90-240	Flush-Panel	Rectangular	52M1956	25.00
● 722-0003	3	90-240	Flush-Round	Round	97H1577	25.00
● 722-0004	4	90-240	3-Hole Panel	Round	97H1578	25.00
● 722-0030	5	90-264	Flush-Panel with Clip	Square	05N0105	25.00

DC HOUR METERS

Mfg. Part No.	Fig.	Operating Voltage (VDC)	Mounting	Meter Shape	Stock No.	Price Each
● 732-0004	1	10-80	2-Hole Panel	Rectangular	88H4282	25.00
● 732-0001	4	10-80	3-Hole Panel	Round	82H1901	25.00
● 732-0030	5	10-80	Flush-Panel with Clip	Square	05N0108	25.00
● 732-0013	6	10-80	Cup-Panel	Round	05N0106	25.00
● 732-0023	7	10-80	Stirrup-Panel	Round	05N0107	25.00

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● 5003-005S	Sealing Gasket for 722-0004, 732-0001	97H1504	0.80
● 5003-008	Sealing Gasket for 732-0013, 732-0014, 732-0023, 732-0024	05N0093	0.80
● 5003-009	Sealing Gasket for 722-0002, 732-0002	05N0094	0.80
● 5003-010	Sealing Gasket for 722-0001, 732-0004	05N0095	0.80
● 5003-011	Sealing Gasket for 722-0004, 732-0001	66M8751	0.80
● 1662-024	Square Pane Bezel 72mm	05N0075	0.80
● 1662-025	Round Pane Bezel 72mm	05N0076	0.80
● 1662-026	Square Pane Bezel 55mm	05N0077	0.80

(89428)

HOURMETERS



7 digit, numerals magnified to 0.14", 2 oz., 2 watts (nominal AC), 0.4 watts (DC). Temperature range -13°F to +185°F, mounting by retaining clip or 2-screw mounting kit not included, 1.45" x .87" panel cutout. 1/4" spade terminals obtainable by removing screws from clamp. All are 99,999.99 hrs. AC models UL recognized, CSA certified, CE compliant. DC models CE compliant only.

AC HOURMETERS

Mfg. Part No.	Voltage Max. (VAC)	Mount	Style	Stock No.	Price Each
● 711-0130	115	2-Hole	Rectangular	48M1317	54.85
● 711-0131	230	2-Hole	Rectangular	48M1318	54.85
● 711-0113	115	Panel	Rectangular	48M1316	54.85

DC HOURMETERS

Mfg. Part No.	Voltage Max. (VDC)	Mount	Style	Stock No.	Price Each
● 731-0040	28	2-Hole	Rectangular	48M1323	51.55

FLUSH MOUNT AC HOURMETER

Flush mount, AC hourmeter, 15" leads, 2 watts (nominal), 1.98 x 0.99" panel cutout. 711-0019 is 6 figures with bracket retainer for mounting. 711-0020 is 7 figures with snap-in mounting. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Voltage Max. (VAC)	Mount	Style	Stock No.	Price Each
● 711-0020	115	Panel	Rectangular	48M1315	72.20
● 711-0019	115	Panel	Rectangular	48M1314	190.20

AC ROUND AND SQUARE HOURMETERS

7 digit, 0.14" numerals, 4 oz., 3 watts (nominal), temperature range -22°F to +158°F; panel cutout 1.99" dia. or 1.81" sq; incorporates retaining clip or 3-screw mounting kit included. 1/4" spade terminals obtainable by removing screws from clamp. All are 99,999.99 hrs. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Voltage Max. (VAC)	Mount	Style	Stock No.	Price Each
● 711-0160	115	3-Hole	Round	48M1320	48.25
● 711-0162	230	3-Hole	Round	48M1321	50.30
● 711-0150	115	Panel	Round	48M1319	47.15
● 711-0190	115	Panel	Square	48M1322	52.55

(2772)

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(148882)

TIMERS – ELAPSED

MODEL 34 LCD COUNTERS AND HOUR METERS



- AC or DC voltage input in the same unit
- Hour Meter/Counter versions
- Totally sealed from moisture and dirt

The Redington Model 34 LCD provides a large, always ON display, with 0.28" [7mm] high characters, in the standard industry size housings (1.45 x 0.95" [36.8 x 24.1mm]). The hour meters and counters are available in 7 different housings. All models are totally sealed and are capable of submersion in 6' [2 meters] of water. A wide operating voltage, 10-300VDC and 20-300VAC, and inductive input make the Model 34 versatile for all indoor and outdoor applications. All models are NEMA 4/4X, 12, & IP66 rated when used with the optional gasket and have a polarized lens which assures high visibility in an outdoor environment.

LCD COUNTERS

Mfg. Part No.	Mounting Type	No. of Digits	Stock No.	Price Each
● 3400-0000	Two Hole Rectangular	8	05N0078	30.00
● 3400-1000	Three Hole Round	8	05N0079	30.00
● 3400-2000	Flush Rectangular	8	05N0080	30.00
● 3400-3000	Flush Round	8	05N0081	30.00
● 3400-4000	No-Hole Flange	8	05N0082	31.50
● 3400-5000	Snap-in	8	05N0083	31.50
● 3400-7000	1.89" Square	8	05N0084	31.50

LCD HOUR METERS

● 3410-0000	Two Hole Rectangular	8	05N0085	30.00
● 3410-1000	Three Hole Round	8	05N0086	30.00
● 3410-2000	Flush Rectangular	8	05N0087	30.00
● 3410-3000	Flush Round	8	05N0089	30.00
● 3410-4000	No-Hole Flange	8	05N0090	31.50
● 3410-5000	Snap-in	8	05N0091	31.50
● 3410-7000	1.89" Square	8	05N0092	31.50

(115440)

TechCast® Product Training

Use the library of online training modules located on our homepage under Useful Tools, with specific guidance for complex solutions.

(148857)

ELAPSED TIME METERS



Style 55ET 3.5" size, 120VAC or 240VAC input power. Accuracy synchronous with AC power. Styles 57ET, 1357ET and 2153ET 3.5", 120VAC input power. Accuracy synchronous with AC power. Style 112ET 1.5" size, 120VAC input power. Accuracy $\leq 0.01\%/24 \text{ hrs}$. Style 109ET 1.5" size, 10-80VDC input power or 100-265VAC with optional style 03619 adapter. Accuracy $\leq 0.01\%/24 \text{ hrs}$. All styles totalizing, non-resettable.

Mfg. Part No.	Style	Stock No.	Price Each
03580	55ET/120VAC	55F4359	93.94
03600	55ET/240VAC	55F4363	94.40
03590	57ET	55F4361	93.94
03595	1357ET	55F4360	93.94
17720	2153ET	57F2473	93.94
03622	112ET	12C8566	35.70
03618	109ET	46F1399	46.51
03619	AC Converter Module for Type 109ET	46F1438	15.61

(2378)

ELAPSED AND PRESET TIMERS



A103 series elapsed time indicators and preset timers can be programmed to meet your needs. They display in seconds, minutes, hours, or hours: minutes: seconds. All units use an internal 3-volt single or dual battery. Features include a 7-digit supertwist LCD with .47" (12mm) high digits and green illumination display backlight capability. Accepts input signals from dry contact, PNP, or NPN sensors. Timing start/stop can be initiated by solid-state signals or mechanical switches. Reset on front panel or remotely. Ranges and resolution: seconds, minutes to 1/10, hours to 1/10, hours: minutes: seconds. Connections made at screw terminals. Weight: 2.25 oz. (64 g). Front panel rated NEMA 4/IP65 for use in washdown environments. Order matching counters, rate indicators, and quick-attach option modules separately; go online or call.

Mfg. Part No.	Description	Stock No.	Price Each
A103-006	Elapsed Time Indicator	52F1238	93.63
A103-008	Preset Timer	52F1240	142.13

(2848)

VEEDER-ROOT BRAND HOURMETERS



Series 7795 rugged and reliable electric hourmeters fit 2" diameter round or 0.95 x 1.45" rectangular panel cutouts. 1/10 hour increments with capacity to 99999.9 hours (DC models: 9999.9) and 1% accuracy. Models for 120VAC or 10 to 32VDC operation. Compact, easy to install. Sealed against dirt and moisture and non-resettable. Ideal for use on any equipment to determine usage, maintenance and warranty periods. Temperature range: AC models: -65° to +154°F (-18° to +68°C); DC models: -40° to +185°F (-40° to +85°C).

Mfg. Part No.	Description	Stock No.	Price Each
0779555-216	Round, DC, Spade Terminals	87F1090	131.21
0779565-216	Rectangular, DC, Spade Terminals	87F1091	131.21
0779516-201	Round, AC, Screw Terminals	71C9395	93.94
0779526-201	Round, AC, 7" Leads	27C7866	92.45
0779536-201	Rectangular, AC, Screw Terminals	87F1089	92.45

(2758)

TIMERS – ELECTRO-PNEUMATIC • TIMERS – INTERVAL • TIMERS – PROGRAMMABLE CAM

AGASTAT INDUSTRIAL ELECTROPNEUMATIC TIMING RELAYS



- Available in On-delay, true Off-delay and On/Off-delay
- Timing from 0.1 s to 60 min., fully calibrated in linear increments
- Operating voltages: 6 to 550VAC and 12 to 550VDC with special voltages available
- Available in 2-pole or 4-pole models
- Many enclosure options: explosion proof, dust tight, watertight, hermetically-sealed, NEMA 1
- Mounting options: surface mount, panel mount, octal plug-in mounting
- Options and accessories: quick-connect terminals, dial stops and transient protection module
- Front terminals: easy-to-reach screw terminals

Initiate, delay, sequence and program equipment actions over wide range of applications. **7000 series** dielectric withstands 1500Vrms 60Hz between terminals and ground. Normal mounting in vertical position, from back of panel. A front mounting bracket is also supplied with each basic unit. Standard screw terminals (8-32 truss head screws supplied) located on front of unit, with permanent schematic markings. Barrier isolation accommodates spade or ring tongue terminals. Seismic and radiation tested E700 models available; *go online or call*. UL listed, CSA certified, CE compliant.

DPDT, ON-DELAY, 120V 60Hz, 110V 50Hz

Mfg. Part No.	Timing Range	Stock No.	Price Each		
			1-4	5-9	10-24
7012AB	0.5 to 5 sec.	57F1550	253.78	243.07	233.21
7012AK	1 to 300 sec.	28F1929	253.78	243.05	233.23
7012AD	5.0 to 50 sec.	57F1551	256.05	245.24	235.29
7012AE	20 to 200 sec.	57F1583	266.88	246.53	230.10
7012AF	1 to 10 min.	57F1585	280.60	268.75	257.84
7012AH	3 to 30 min.	57F1552	335.38	321.22	308.19

DPDT, OFF-DELAY, 120V 60Hz, 110V 50Hz

7022AB	0.5 to 5 sec.	57F1556	256.05	245.25	235.29
7022AK	1 to 300 sec.	28F1931	236.87	226.87	217.66
7022AC	1.5 to 15 sec.	57F1582	253.78	243.07	233.21
7022AD	5.0 to 50 sec.	57F1557	254.81	246.53	230.10
7022AF	1 to 10 min.	57F1586	280.60	268.75	257.84
7022AH	3 to 30 min.	57F1558	290.72	281.25	262.51
7022BK	1 to 300 sec.	28F1932	253.78	243.07	233.21

DPDT, ON-DELAY, 125VDC

7012PB	0.5 to 5 sec.	50F3837	275.25	263.61	252.93
7012PK	1 to 300 sec.	50F3840	275.27	263.59	252.94
7012PF	1 to 10 min.	50F3615	302.02	289.30	277.54

(2706)

MPB SERIES INTERVAL TIMERS

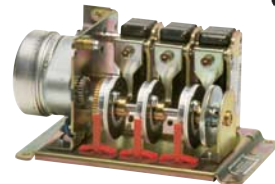
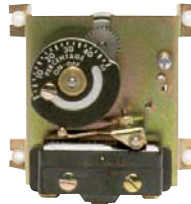
Automatic reset, pushbutton-operated timers feature metal bezel-framed dial with time selector ring and start button in one assembly. SPDT snap action switch is rated 15A non-inductive, 125/250VAC. Time rated 120V/60Hz, 1/4" push-on terminals, 4H x 4W x 2 1/2"D. UL recognized, CSA certified.



Mfg. Part No.	Setting		Stock No.	Price Each
	Max.	Min.		1-2
● MPB-5M	5 min.	5 sec.	24F1757	150.88
● MPB-15M	15 min.	15 sec.	24F1758	150.88
● MPB-60M	60 min.	1 min.	24F1759	150.88

LPB panel-mount units also available, *go online or call*.
(2907)

CM SERIES SINGLE CAM AND MC SERIES MULTI-CAM PROGRAMMABLE TIMERS



CM

MC

CM series and MC series recycling timers repeat a continuous adjustable on/off time cycle. A heavy duty synchronous motor, which offers 13 different speeds, is linked with a choice of gear racks; *go online or call*, to allow for a variety of time cycles to be selected. SPDT switches on the cams are rated 10 amps non-inductive at 120VAC. Cams are adjustable 2-98% of total cycle time. Other versions available, up to 20 switches; *go online or call*. UL recognized. CSA certified.

CM SERIES

Mfg. Part No.	Stock No.	Price Each
		1-2
● CMO 115/60	24F1827	152.52
● CM-3	24F1829	134.48
● CM-5	24F251	134.48
● CM-6	24F252	134.48
● CM-7	24F1819	134.48
● CM-10	24F254	134.48

MC SERIES

Mfg. Part No.	Chassis	Stock No.	Price Each
			1-2
● MC3-4SW	4 Switch	62F2067	292.80
● MC5-4SW	4 Switch	62F2014	292.80
● MC5-6SW	6 Switch	62F2022	366.40

(3079)

Need an Instrument Case?





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(147434)



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(148831)