

Type UPA21 Preliminary version

Electronic Pressure Transmitter for OEM applications

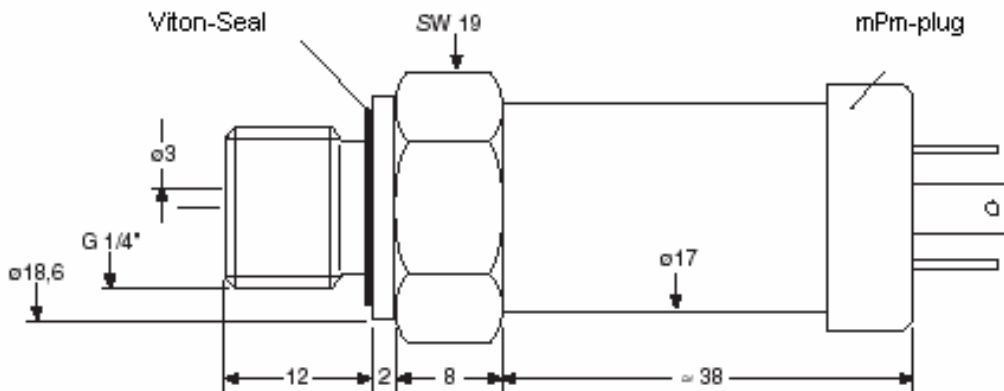
Specifications

Stainless Steel Body & Pressure Port

Measuring Range	5	10	20	50	100	200	bar gauge
Proof Pressure	10	20	40	100	200	300	bar gauge

	<u>2-wire</u>
Output Signal	4...20 mA
Power Supply	8...28 V DC
Accuracy	± 0,5% f.s.
Temperature Influence Offset	± 0,03% f.s./°C
Temperature Influence Sensivity	± 0,03% /°C
Long-term stability, typ.	< 0,2% FS

Temperature Range	-25...+80°C
Compensation Range	0...+50°C
Protection class	IP 65
Vibration	20 g (5...2000 Hz, max. amplitude ± 3mm), acc. IEC 68-2-6
Shock	20 g (11 ms)
CE-conformity	EN 50081-1, EN 50082-2
Isolation	> 100 MΩ / 500 V
Pressure Connection	G 1/4" male, Viton-Seal
Plug	mPm
Weight	≈ 60 g



Two Wire Configuration
 Pin 1 -ve
 Pin 2 +ve
 Pin 4 Earth

PRESSURE

Electronic Pressure Transmitter Type UPA 5



Type UPA 5

Pressure transmitter for OEM applications

Features

Accuracy 0,5 % FSO IEC 770, output signal 4 ... 20 mA / 2-wire, (Optional: 0 ... 10 V / 3-wire), warranty: 12 months, optional: oil-free and non-fat version, absolute pressure ranges

Pressure range

from vacuum up to 400 bar overpressure

Applications

OEM applications, general measuring tasks in hydraulics and pneumatics



05 / 03 UPA 5-ENG 02/2

Technical data

Sensor Element : Ceramic sensor

Materials:

Pressure Connection : Stainless steel 1.4305
 Housing : Stainless steel 1.4305
 Wetted Parts : Ceramics Al₂O₃
 Seals Sensor : Viton

Protection Class : IP65

Pressure Connection : G 1/4 external thread

Dimensions : ø 27 mm x ca.58 mm
 (without electrical plug)

Weight : appr.145 g

Pressure Ranges (bar)

-1...0	1	1,6	2,5	4	6	10	16	25	40	60	100	160	250	400
4	4	4	4	10	10	20	40	40	100	100	200	400	400	600

Overpressure (bar)

Accuracy (IEC 770) : <±0,5% FSO

Temperature influence : <±2% FSO
 in compensated range : 0 °C...+70 °C

Electrical Connection : Electrical plug 3-pin + ground
 acc. to DIN 43650
 (Optional: PG7 / 2 m cable)

Temperature Ranges

Medium : -25 °C...+125 °C
 Electronics : -25 °C...+85 °C

Vibration : 10 g / 20...2000 Hz

Shock : 100 g / 11 ms

Power Supply : 12...36 V DC

Max. Load (Ω)

Current 2-wire : [U_s(V) – 12 V] / 0,02 A
 Voltage 3-wire : >1 MΩ

Output Signal : 4...20 mA / 2-wire
 (Optional: 0...10 V / 3-wire)

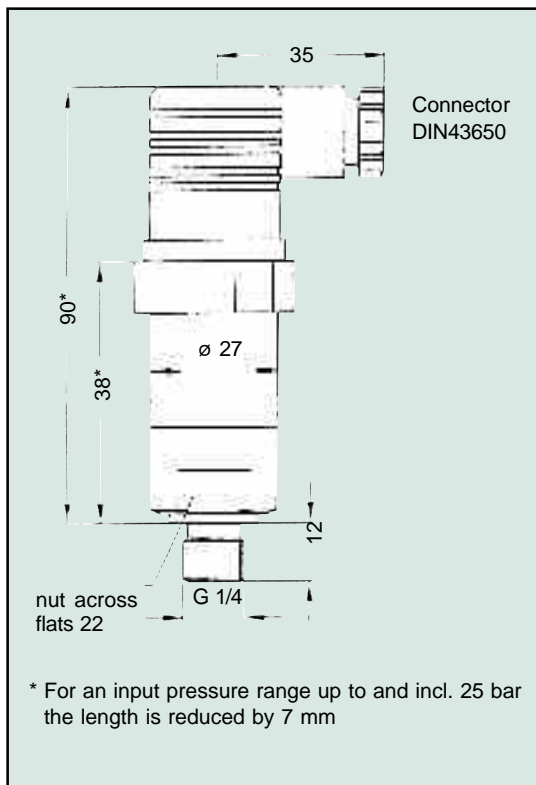
Accessories : Electrical plug acc. to DIN 43650

Electronic Pressure Transmitter Type UPA 5

Due to technical changes.

Type UPA 5

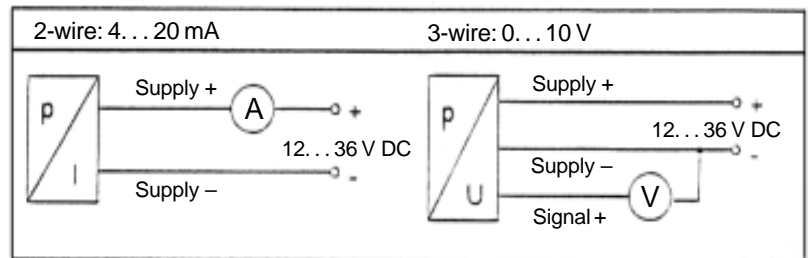
Dimensions (in mm)



Connector Pin Out Chart

Connector pin out		Electrical connections	
		DIN 43650	Cable colours (DIN 47100)
2-wire system (4 ... 20 mA)	Supply +	1	White
	Supply -	2	Brown
3-wire system (0 ... 10 V)	Supply +	1	White
	Supply -	2	Brown
	Signal +	3	Green

Wiring Diagram



Order numbers

Pressure range (bar) relative	Output signal 4 ... 20 mA plug DIN 43650	Output signal 0 ... 10 V DC plug DIN 43650	Output signal 4 ... 20 mA Pg7 / 2 m cable	Output signal 0 ... 10 V DC Pg7 / 2 m cable
-1...0	0434-002	0434-037	0434-046	0434-061
1	0434-006	0434-027	0434-047	0434-062
1,6	0434-007	0434-028	0434-048	0434-063
2,5	0434-008	0434-029	0434-049	0434-064
4	0434-009	0434-030	0434-050	0434-065
6	0434-010	0434-031	0434-051	0434-066
10	0434-011	0434-032	0434-052	0434-067
16	0434-012	0434-026	0434-053	0434-068
25	0434-024	0434-022	0434-054	0434-069
40	0434-014	0434-033	0434-055	0434-070
60	0434-015	0434-034	0434-056	0434-071
100	0434-003	0434-035	0434-057	0434-072
160	0434-004	0434-023	0434-058	0434-073
250	0434-018	0434-005	0434-059	0434-074
400	0434-001	0434-036	0434-060	0434-075
(bar) absolute				
1	0434-041			
2	0434-040			
4	0434-042			
16	0434-043			

Due to technical changes.