

Converter Technology with a New Dimension
Temperature, Analogue, Watchdog

Signal Converters



Analogue-analogue converters

- ▶ MICROKON converters – from only 6.2 mm wide and 0.1% accuracy
- ▶ All converters have at least 2 way isolation
- ▶ All ranges are pre-calibrated - no field adjustment required



Single range converters
Galvanic isolation 2 way;
Width 6.2 mm;
Power AC/DC 24 V

Part #	Description	Input	Output
750500	WAA 6-0500	0 – 10 V	0 – 10 V
750501	WAA 6-0501	0 – 10 V	0 – 20 mA
750502	WAA 6-0502	0 – 10 V	4 – 20 mA
750503	WAA-6-0503	0 – 20 mA	0 – 10 V
750504	WAA 6-0504	0 – 20 mA	0 – 20 mA
750505	WAA 6-0505	0 – 20 mA	4 – 20 mA
750506	WAA 6-0506	4 – 20 mA	0 – 10 V
750507	WAA 6-0507	4 – 20 mA	0 – 20 mA
750508	WAA 6-0508	4 – 20 mA	4 – 20 mA

Universal converters
48 selectable ranges;
Width 17.5 mm

Input:
0 – 60, 0 – 100, 0 – 300, 0 – 500 mV;
0 – 1, 0 – 5, 0 – 10, 0 – 20, 2 – 20 V;
0 – 5, 0 – 10, 0 – 20, 4 – 20, +/- 5,
+/- 20 mA

Output signal:
0 – 10 V; 0 – 20 mA; 4 – 20 mA

Part #	Description	Power	Isolation
750514	WUAA 6-0514	AC/DC 24 V	2 way
750516	WUAA 6-0516	AC/DC 24 V	3 way
750517	WUAA 6-0517	AC/DC 24 – 240 V	3 way

Loop powered converters
Passive isolation
Input and Output signal:
0 – 20 mA; 4 – 20 mA

Part #	Description	Type	Power	Width
750513	WPAA 6-0513	single channel	loop powered	6.2 mm
750521	WPAA 6-0521	two channels	loop powered	12.5 mm

Part # 751... = Cage clamp terminals



Universal converters	Part #	Description	Power	Isolation	Width
9 or 12 selectable ranges	750509	WNAA 6-0509	AC/DC 24 V	2 way	6.2 mm
	750510	WNAA 6-0510	AC/DC 24 - 240 V	3 way	17.5 mm
Input and output signals can be set for: 0 - 10 V; 0 - 20 mA; 4 - 20 mA	750511*	WNAF 6-0511	AC/DC 24 V	2 way	6.2 mm
	750512*	WNAF 6-0512	AC/DC 24 - 240 V	3 way	17.5 mm

* with frequency output 0.05 kHz, 0.1 kHz, 1.0 kHz, 10 kHz

Converter modules for building automation	Part #	Description	Power	Isolation	Width
	750518	WNAA 6-0518	AC/DC 24 V	2 way	17.5 mm
	750519	WNAA 6-0519	AC/DC 24 - 240 V	3 way	17.5 mm

Input and output signals can be set for: 0 - 10 V; 0 - 20 mA; 4 - 20 mA

Additional switch on front for selecting manual or automatic operation

Part # 751... = Cage clamp terminals

Temperature Converters for PT100, Thermocouples



- ▶ 2 or 3 way isolation in 6.2 mm housing
- ▶ Connections on the top for temperature converters
- ▶ All selectable ranges automatically calibrated

Temperature converters for PT100 inputs	Part #	Type	Output	Input	Isolation	
Selectable temperature ranges	750802	WPT 7-0802 PT 100	4 – 20 mA	2 wire	none	
	750803	WPT 7-0803 PT 100	3 Out**	2 wire	2 way	
	750804	WPT 7-0804 PT 100	4 – 20 mA	2 wire	2 way	
	750805	WPT 7-0805 PT 100	0 – 10 V	2 wire	2 way	
	750806	WPT 7-0806 PT 100	4 – 20 mA	2 wire	2 way	
	-50° C – 50° C	750809	WPT 7-0809 PT 100	3 Out**	2 wire	2 way
	-50° C – 100° C	750808	WPT 7-0808 PT 100	4 – 20 mA	2 wire	2 way
	-50° C – 150° C *	750807	WPT 7-0807 PT 100	0 – 10 V	2 wire	2 way
	0° C – 100° C *	750810	WPT 6-0810 PT 100	3 Out**	2 wire	2 way
	0° C – 150° C	750816	WPT 6-0816 PT 100	3 Out**	2 wire	2 way
	0° C – 200° C *	750815	WPT 6-0815 PT 100	3 Out**	2 wire	2 way
	0° C – 300° C	750817	WPT 6-0817 PT 100	3 Out**	2 wire	2 way
	0° C – 400° C	750818	WPT 6-0818 PT 100	3 Out**	2 wire	2 way

* for converters with max. 3 ranges

**switch selectable output signals 0 – 10 V, 0 – 20 mA, 4 – 20 mA

Temperature converters for thermocouple inputs	Part #	Type	Output	Input	Isolation	
Selectable temperature ranges	750833	WTH 7-0833	3 Out**	J	2 way	
	750834	WTH 7-0834	4 – 20 mA	J	2 way	
	750835	WTH 7-0835	0 – 10 V	J	2 way	
	750836	WTH 7-0836	4 – 20 mA	J	2 way	
	750839	WTH 7-0839	3 Out**	J	3 way	
	Types J, K, E, S:	750840	WTH 7-0840	4 – 20 mA	J	3 way
	-50° C – 200° C *	750841	WTH 7-0841	0 – 10 V	J	3 way
	-50° C – 350° C	750844	WTH 6-0844	3 Out**	J + K	3 way
	0° C – 200° C	750847	WTH 6-0847	3 Out**	J + K	3 way
	0° C – 400° C *					
0° C – 600° C *						
0° C – 800° C						
0° C – 1,000° C						
0° C – 1,200° C						

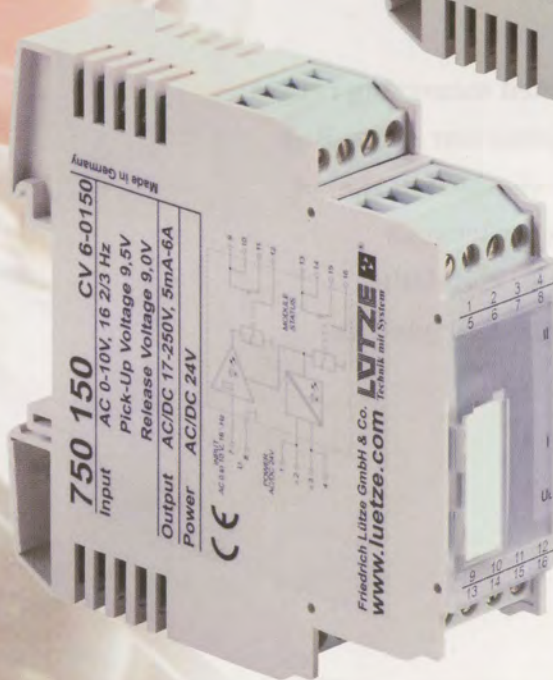
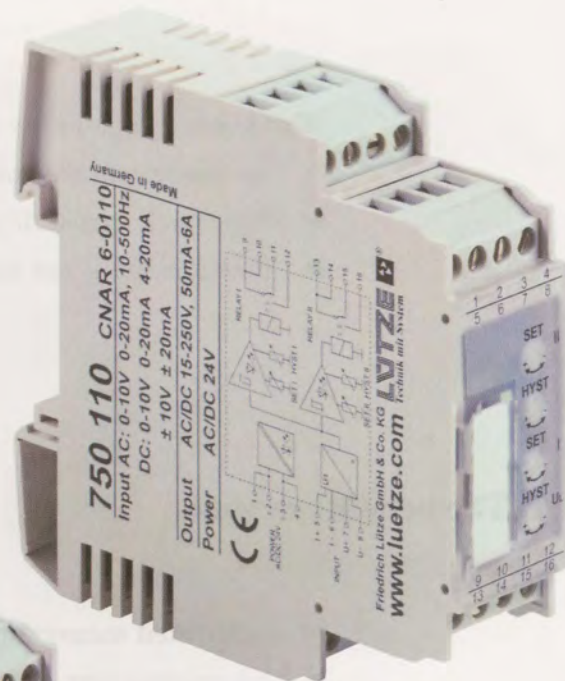
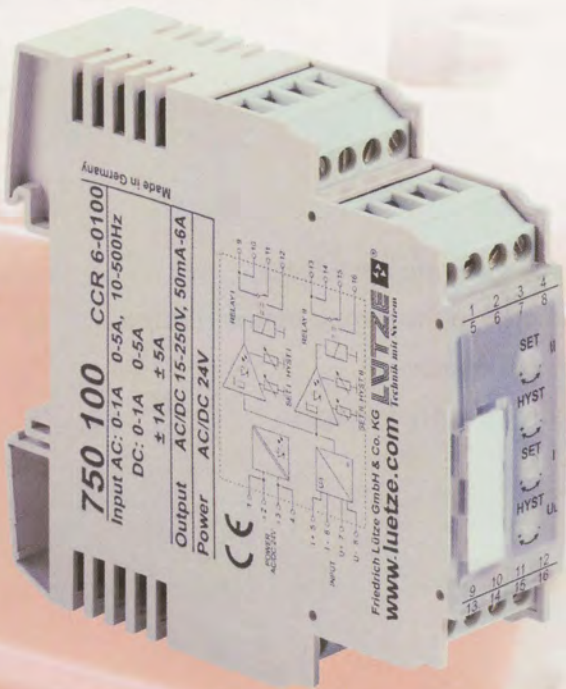
Note: also available for thermocouple types K, E and S

* for converters with max. 3 ranges

**switch selectable output signals 0 – 10 V, 0 – 20 mA, 4 – 20 mA

Watchdog modules

- ▶ Adjustable switching thresholds
- ▶ Adjustable hysteresis
- ▶ 3 way isolation in 22.5 mm housing



Watchdog modules

Part #	Type	Output	Input	Isolation
750100	CCR 6-0100	2 changeover contacts	current monitoring AC/DC 1 / 5 A; DC ± 1 / 5 A	3 way
750110	CNAR 6-0110	2 changeover contacts	analogue signals 0 – 10V; 0 – 20mA; 4 – 20mA; DC ± 20 mA; ± 10 V	3 way
750120	CVR 6-0120	2 changeover contacts	voltage AC/DC 0 – 24 V; 0 – 48 V; 0 – 100 V; 0 – 120 V; 0 – 250 V; 0 – 500 V	3 way
750150	CV 6-0150	2 changeover contacts	voltage/frequency AC 10 V; 16 2/3 Hz	3 way