

Analog Input; for Resistance Sensors

5.4



Figure: 750-464

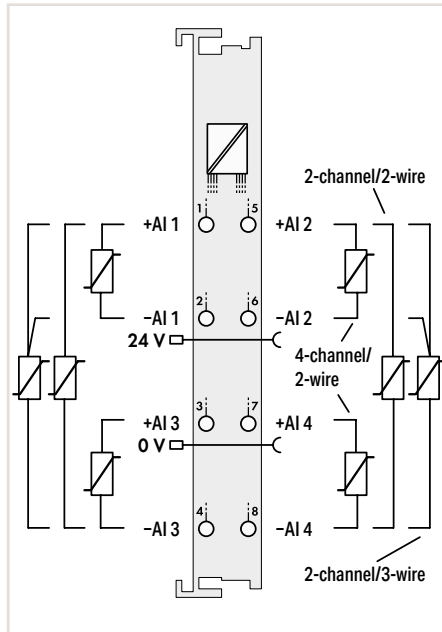
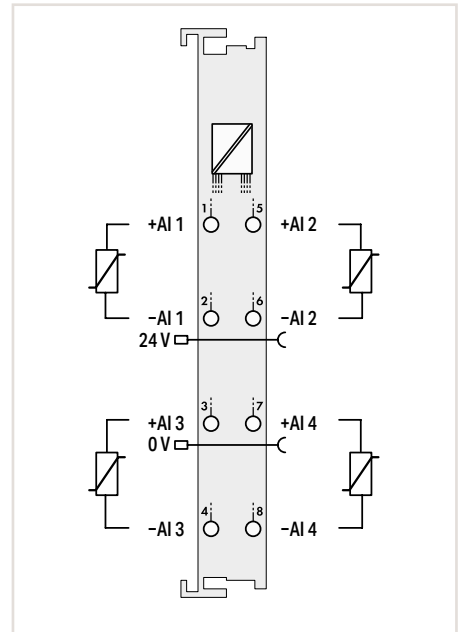


Figure: 750-450



Item Description	2/4-Channel Analog Input; Resistance measurement; Adjustable	4-Channel Analog Input; for resistance sensors; Adjustable
Version	Standard	NTC
Item No.	750-464	750-464/020-000
Order Text	2/4AI; RTD; Adjust	4AI; NTC; Adjust
Technical Data		
Number of analog inputs	2/4	4
Signal type	Pt100; Configurable: Pt200; Pt500; Pt1000; Ni100; Ni120; Ni1000; Potentiometer (2-channel operation only); 10 Ohm ... 1.2 kOhm; 10 Ohm ... 5 kOhm	NTC 10 kOhm; Configurable: NTC 10 kOhm Thermokon; NTC 20 kOhm
Sensor connection	2-wire; 3-wire	2-wire
Temperature range	-200 ... +850 °C (Pt100 ... Pt1000); -60 ... +300 °C (Ni100, Ni1000); -60 ... +250 °C (Ni1000 TK5000); -80 ... +260 °C (Ni120)	-50 ... +150 °C
Resolution	0.1 °C	0.1 °C
Conversion time	320 ms (per channel)	320 ms (per channel)
Measured current (typ.)	≤ 350 μA	≤ 350 μA
Measuring error (max.) at 25 °C	1 K over entire temperature range; 0.5 K over limited temperature range (-30 ... +120 °C; Pt1000)	2 K within the entire temperature range
Temperature error (max.)	20 ppm/K	20 ppm/K
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Current consumption – system supply (5 V)	50 mA	50 mA
Data width	4 (2) x 16-bit data; 4 (2) x 8-bit control/status (optional)	4 x 16-bit data; 4 x 8-bit control/status (optional)
Isolation	500 V (system/field)	500 V (system/field)
Surrounding air temperature (operation)	0 ... +55 °C	0 ... +55 °C
Dimensions W x H x D	12 x 69.8 x 100 mm	12 x 69.8 x 100 mm
Approvals	CE; Marine; OrdLoc/HazLoc; ATEX/IECEX	CE; Marine; OrdLoc/HazLoc; ATEX/IECEX
Data sheet and further information, see:	wago.com/750-464	wago.com/750-464/020-000