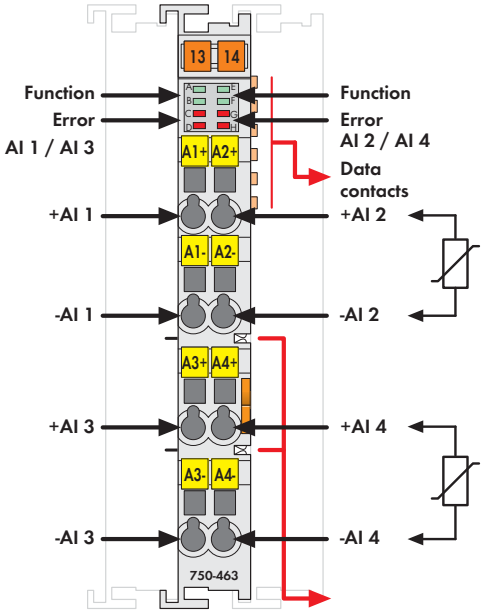
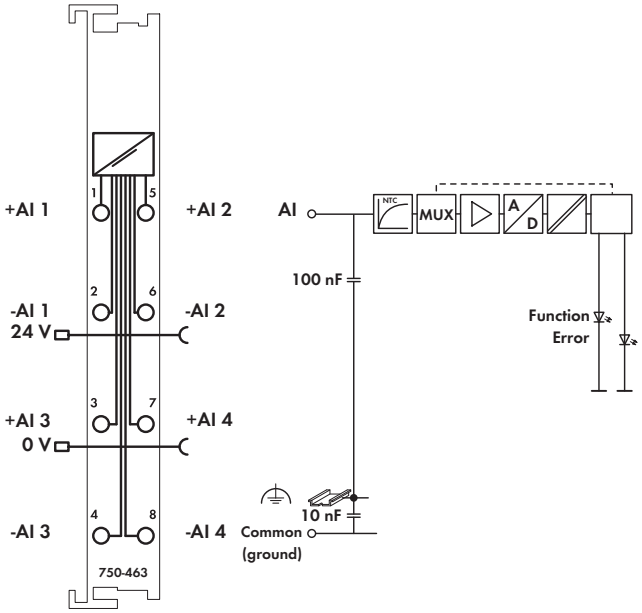
750-463

4-Channel Analog Input Module for Resistance Sensors Temperature Range: -30 °C ... +150 °C



Delivered without miniature WSB markers



The input module directly connects to selected Pt or Ni resistance sensors.
It can only be operated as a 4-channel (2-connector technology) module.
Its temperature range is restricted to -30 °C to +150 °C.
The module automatically linearizes the entire temperature range. A sensor error is indicated by a red LED. The module can be configured via WAGO-I/O-CHECK or GSD files.
The module features multiple setting options and high accuracy.

Description	Item No.	Pack. Unit
4 AI RTD/-30 °C ... +150 °C	**750-463**	1

Accessories		Item No.	Pack. Unit
Miniature WSB Quick marking system			
	plain	**248-501**	5
	with marking	see Section 11	

Approvals

Conformity marking	CE
Korea Certification	
TÜV 07 ATEX 554086 X	I M2 Ex d I Mb,
	II 3 G Ex nA IIC T4 Gc,
	II 3 D Ex tc IIIC T135°C Dc
Permissible ambient temperature	0 °C ... +60 °C
IECEx TUN 09.0001 X	Ex d I Mb,
	Ex nA IIC T4 Gc,
	Ex tc IIIC T135°C Dc
Permissible ambient temperature	0 °C ... +60 °C

Technical Data

Number of inputs	4
Power supply	via system voltage DC/DC
Current consumption typ. (internal)	50 mA
Sensor types	Pt1000 (default setting), Ni1000, Ni1000 TK5000, KTY81 110, KTY81 210
Sensor connection	2-conductor
Temperature range	-30 °C ... +150 °C
Resolution (over entire range)	0.1 °C
Measurement repetition rate (standard)	1.1 s
Measurement repetition rate (2-channel/ 2-conductor)	0.63 s
Response time (max.)	4 s
Measuring error (25 °C)	≤ 0.5 K in temperature range: -30 °C ... +150 °C
Temperature coefficient	≤ 20 ppm/K
Isolation	500 V system/field
Measuring current (typ.)	≤ 350 µA
Bit width	4 x 16 bits data, 4 x 8 bits control/status (optional)
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Strip lengths	8 ... 9 mm / 0.33 in
Width	12 mm
Weight	50.6 g
EMC immunity of interference	acc. to EN 61000-6-1, EN 61000-6-2
EMC emission of interference	acc. to EN 61000-6-3