



Fig. Series 750 / Technical data see page 41 / Delivery without Mini WSB marker
Series 750 / 753 marking see pages 32 ... 33 / 34 ... 35

The RTD (resistive temperature device) input module allows the direct connection of Pt or Ni resistance sensors. The connection of 2- or 3-conductor sensors is possible. The module linearizes the entire temperature range automatically. A sensor error is indicated by a red LED. A green LED indicates readiness for operation and trouble-free communication with the buscoupler. The shield (screen) is directly connected to the DIN rail.

Other variations are available upon request:
Pt 100, Pt 200, Pt 500, Pt 1000, temperature range -200 °C ... + 850 °C
Ni 100, Ni 100, Temperature range -60 °C ... +250 °C
Resistance measuring

- Differing technical data for 750-461/020-000:
- Current consumption max (internal): 65 mA
 - Sensor types: NTC 20 kOhm
 - Temperature range: -30 °C ... +130 °C
 - Measuring error: 0.5 K ... 3.0 K (dependent on temperature)
 - Temperature coefficient: < +/- 0.002 %/K of full scale value
 - Measured current typ.: 0.05 mA at 25 °C

All the listed types of sensors are supported by the configurable variation. Set-up using the WAGO-I/O-Check 2 software.

Description	Item no.	Pack. unit
2AI Pt 100/RTD	750-461	10 ¹⁾
2AI Pt 1000/RTD	750-461/000-003	1
2AI Pt 100/RTD S5 ²⁾	750-461/000-200	1
2AI Pt 100/free configurable	750-461/003-000	1
2AI Ni 100/RTD	750-461/000-004	1
2AI Ni 1000 TK6180/ RTD	750-461/000-005	1
2AI Ni 1000 TK5000/ RT	750-461/000-009	1
2AI Resistance Measur. 10R-1k2	750-461/000-002	1
2AI Resistance Measur. 10R-5k0	750-461/000-007	1
2AI NTC 20k	750-461/020-000	1
2AI Pt 100/RTD (without connector)	753-461	10 ¹⁾

¹⁾ Also available individually
²⁾ Data format for S5 control with FB 251

Accessories	Item no.	Pack. unit
Connectors Series	753-110	25
Coding elements	753-150	100
Miniature WSB Quick marking system plain	248-501	5
Miniature WSB Quick marking system with marking	see pages 224 ... 225	

Approvals	
Series 750 and 753	
UL 508	
Conformity marking	CE
Series 750	
Marine applications	see pages 36 ... 39
EN 50021	II 3 G EEEx nA II T4
UL 1604	Class I Div2 ABCD T4A

Technical Data	
No. of inputs	2
Voltage supply	via system voltage DC / DC
Current consumption typ (internal)	80 mA
Sensor types	Pt 100 (basic variation), optional variations available for Pt 200, Pt 500, Pt 1000, Ni 100, Ni 120, Ni 1000, resistance measuring
Sensor connection	3-wire connection (factory preset) or 2-wire
Temperature range	-200 °C ... + 850 °C (Pt) -60 °C ... +250 °C (Ni)
Resolution (over whole range)	0.1 °C
Conversion time	320 ms (per channel)
Response time max.	4 s
Measuring error (25°C)	< ± 0.2 % of the full scale value
Temperature coefficient	< ± 0.01 % / K of the full scale value
Isolation	500 V system / supply
Measuring current typ.	0.5 mA
Bit width	2 x 16 bits data 2 x 8 bits control / status (optional)
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Stripped length series 750 / 753	8 ... 9 mm / 0.33 in 9 ... 10 mm / 0.37 in
Width	12 mm
Weight	approx. 55 g
EMC CE -Immunity to interference	acc. to EN 50082-2 (1996)
EMC CE -Emission of interference	acc. to EN 50081-1 (1993)
EMC marine applications -	
Immunity to interference	acc. to Germanischer Lloyd (1997)
EMC marine applications -	
Emission of interference	acc. to Germanischer Lloyd (1997)