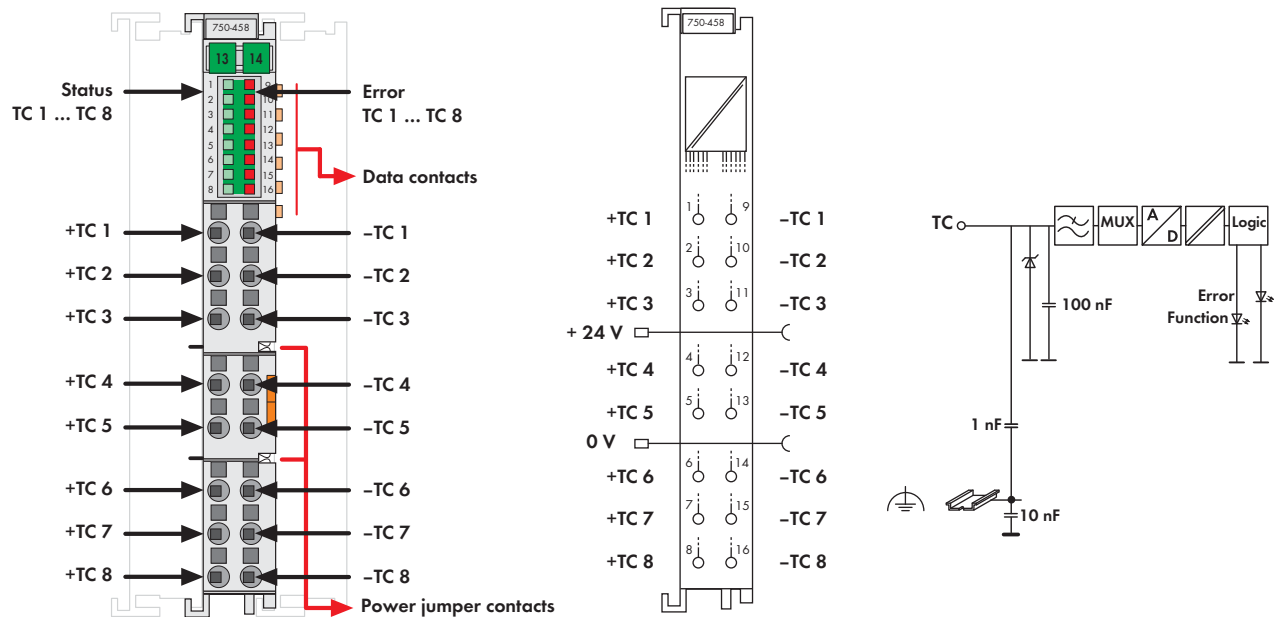


8-Channel Analog Input Module for Thermocouples



This input module directly connects to thermocouples.
 The module automatically linearizes the entire temperature range.
 Cold junction compensation mitigates the clamping unit offset voltage over the 0–55 °C operating range.
 A line break is indicated by a red LED.
 Unused channels can be deactivated.
 The module can be configured via WAGO-I/O-CHECK or GSD files.
 It features multiple setting options and high accuracy.

Description	Item No.	Pack. Unit
8AI Thermo, freely configurable	750-458	1
Accessories		
Miniature WSB Quick marking system		
plain	248-501	50
with marking	see Full Line Catalog Automation Technology	
Operating tool, with partially insulated shaft, type 1, blade (2.5 x 0.4) mm	210-719	50
Approvals		
Conformity marking	CE	
Marine applications	DNV GL	

Technical Data	
Number of inputs	8
Power supply	via system voltage DC/DC
Current consumption typ. (internal)	100 mA
Sensor types	Type K, J, B, E, N, R, S, T, U, C; Voltage measurement -30 mV...+30 mV, -60 mV...+60 mV, -120 mV...+120 mV, -240 mV...+240 mV
Cold junction compensation	at each pair of terminal blocks
Resolution	0.1 °C
Conversion time	per channel: ≤ 100 ms
Measuring error (25 °C)	Without cold junction compensation: ≤ ±1 K (Type E, N, K, T, J, C); ≤ ±2 K (Type S, R); ≤ ±3 K (Type B); Cold-junction compensation measurement error: ≤ ±4 K
Isolation	500 V system/supply
Bit width	8 x 16 bits data; 8 x 8 bits control/status (optional)
Wire connection	Push-in CAGE CLAMP®
Cross sections	solid: 0.08 mm² ... 1.5 mm² / AWG 28 ... 16 fine-stranded: 0.25 mm² ... 1.5 mm² / AWG 22 ... 16
Strip lengths	8 ... 9 mm / 0.33 in
Width	12 mm
EMC immunity of interference	acc. to EN 61000-6-1, EN 61000-6-2
EMC emission of interference	acc. to EN 61000-6-3