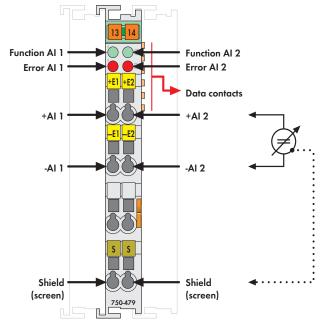
2-Channel Analog Input Module ±10 V

Differential measurement input





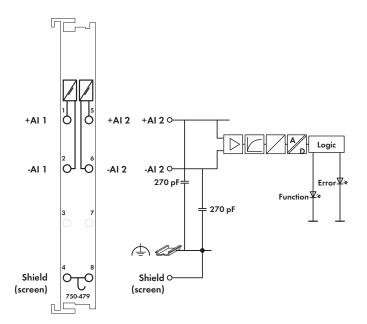


Fig. 750 Series Delivered without miniature WSB markers

The analog input module receives differential signals of values $\pm\ 10 \text{VDC}$.

The input signal of each channel is electrically isolated and will be transmitted with a resolution of 13 bits.

The system supply (via the data bus contacts) is used for the power supply of the module. The shield (screen) is directly connected to the DIN rail.

- Measured-value acquisition: time synchronous (both inputs)
 Overrange / measuring range underflow: status byte and LED
 Method of conversion: SAR (Successive Approximation Register)
- Operating mode: continuously sampling (preset)
 Protection: RC circuit

Technical data for the 750-479/000-001 model:

- Measured-value acquisition time synchronous (in connection with synchronized sampling of the slave, 750-303 Fieldbus Coupler (as from version 0101))

 Overrange / measuring range underflow status byte, status bits, measured value and LED (min./max. limiting values can also be set according to customers' specifications)
- Sampling delay (instruction/conversion) < 50µs Operating mode triggered

Description		Item No.	Pack. Unit
2AI ±10V DC Diff. Measur. Inp.		750-479	1
2AI ±10V DC Differential Input		750-479/000-001	1
Synchronous			
Differing technical	data see text		
2AI ±10V DC Differential Input (withou		ut 753-479	1
connector)			
Accessories		Item No.	Pack. Unit
	753 Series Connec		25
	Coding elements	753-150	100
		uick marking system	
becommuned	plain	248-501	5
CHARLEST CO.	with marking	see Section 11	
Approvals			
Conformity marking		CE	
Korea Certification			
Marine applications (versions upon request)		ABS, BV, DNV, GL, KR, LR,	NKK, PRS, RIN
(®∞ UL 508			
® ANSI/ISA 12.12.01		Class I, Div. 2, Grp. ABCD,	. T4
TÜV 12.1297 X (Brazil)		E 1 110 E 1 0 1 T 50 1 T 0	١
10V 12.1297 X (B)	razil)	Ex nA IIC T4 Gc (750-479	,
© TÜV 07 ATEX 5		Ex nA IIC 14 Gc (/50-4/9 I M2 Ex d I Mb,	1
•		· · · · · · · · · · · · · · · · · · ·	I
,		I M2 Ex d I Mb,	
,	54086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc,	

Technical Data		
Number of inputs	2, electrically isolated from each other	
Power supply	via system voltage DC/DC	
Current consumption (internal)	100 mA	
Signal voltage	± 10 V	
Internal resistance	1 ΜΩ	
Input filter	low pass first order, $f_G = 5 \text{ kHz}$	
Resolution of the A/D converter	14 bits	
Monotonicy without missing codes	yes	
Resolution of measured value	13 bits + sign bit	
Value of a LSB (least significant bit)	1.2 mV	
Measuring error (25 °C)	\leq ± 0.05 % of the full scale value	
Temperature coefficient	$< \pm 0.01 \%$ / K of the full scale value	
Measuring error	\leq 0.4 % over whole temperature scale	
	≤ 0.1 % of upper range value (non-linearity)	
Crosstalk attenuation	≥ 80 dB	
Sampling time of repetition	1 ms	
Sampling delay (module)	1 ms	
Sampling delay (channel/channel)	≤ 1 µs	
Sampling duration	≤ 5 µs	
Admissible continuous overload	60 V	
Dielectric strength	500 V DC channel/channel or	
	channel/system	
Bit width	2 x 16 bits data	
	2 x 8 bits control/status (optional)	
Wire connection	CAGE CLAMP®	
Cross sections	$0.08~\text{mm}^2 \dots 2.5~\text{mm}^2 / \text{AWG} 28 \dots 14$	
Strip lengths, 750/753 Series	8 9 mm / 0.33 in	
	9 10 mm / 0.37 in	
Width	12 mm	
Weight	54.5 g	
EMC immunity of interference	acc. to EN 61000-6-2, marine applications	
EMC emission of interference	acc. to EN 61000-6-4, marine applications	

Ex tc IIIC T135°C Dc

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