

## 2-Channel Analog Input Module 0/4-20 mA

Single-ended (S.E.)

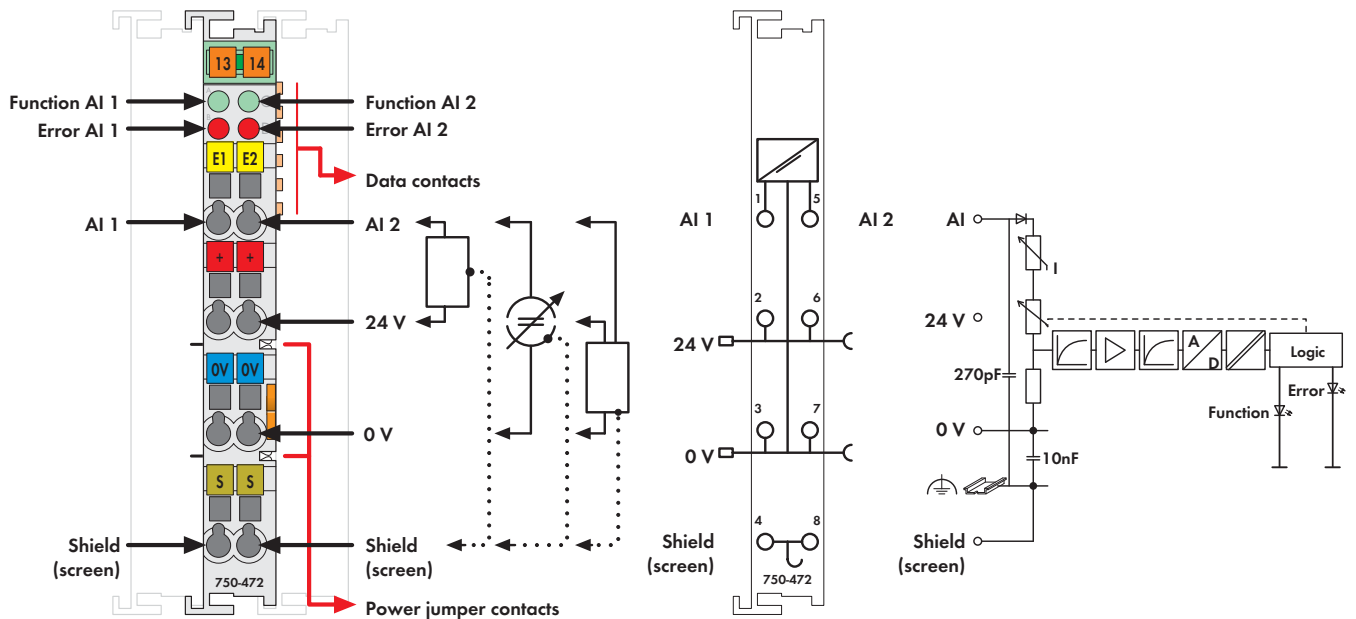


Fig. 750 Series  
Delivered without miniature WSB markers






The analog input module is able to provide power to the field device, to receive the transmitted analog signals, and with electrical isolation, to transmit them to the fieldbus.

The 24V supply for the field is derived from the power jumper contacts.

The shield (screen) is directly connected to the DIN rail.

At approx. 25mA the overload protection switches the measurement input to high resistance state. Under normal operating conditions it is automatically switched back.

This input module can supply the voltage for 2-conductor transducers.

Description	Item No.	Pack. Unit
2AI 0-20mA 16 Bit S.E.	750-472	1
2AI 4-20mA 16 Bit S.E.	750-474	1
2AI 0-20mA 16 Bit S.E. S5 <sup>1)</sup>	750-472/000-200	1
<b>Product discontinuation</b>	<b>Last call: 31.05.2017</b>	
2AI 0-20mA 16 Bit S.E. 60Hz	750-472/005-000	1
2AI 4-20mA 16 Bit S.E. S5 <sup>1)</sup>	750-474/000-200	1
2AI 4-20mA 16 Bit S.E. 60Hz	750-474/005-000	1
2AI 0-20mA 16 Bit, S.E. (without connector)	753-472	1
2AI 4-20mA 16 Bit, S.E. (without connector)	753-474	1
<sup>1)</sup> Data format for S5 control with FB 251		
Accessories	Item No.	Pack. Unit
 753 Series Connectors	753-110	25
 Coding elements	753-150	100
<b>Miniature WSB Quick marking system</b>		
 plain	248-501	5
 with marking	see Section 11	
Approvals		
Conformity marking	CE	
Korea Certification		
Marine applications (versions upon request)	ABS, BV, DNV, GL, KR, LR, NKK, PRS, RINA	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
TÜV 12.1297 X (Brazil)	Ex nA IIC T4 Gc (750-472, -474)	
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	
IECEX TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc	

Technical Data	
Number of inputs	2
Power supply	via system voltage DC/DC
Current consumption (internal)	75 mA
Input voltage (max.)	24V
Input voltage	non-linear, overload protected
	$V = 1.2 V + 100 \Omega \times I \text{ meas.}$
Signal current	0 - 20mA (750-472 / 753-472) 4 - 20mA (750-474 / 753-474)
Input resistance	220 $\Omega$ / 20 mA
Overvoltage protection	30 V polarity reversal protection
Resolution	15 bits
Conversion time (typ.)	80 ms
Input filter	50Hz
Noise rejection at sampling frequency	< -100 dB
Noise rejection above sampling frequency	< -40 dB
Measuring error (25 °C)	< $\pm 0.1$ % of the full scale value
Temperature coefficient	< $\pm 0.01$ % / K of the full scale value
Isolation	500 V system/supply
Bit width	2 x 16 bits data 2 x 8 bits control/status (optional)
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / AWG 28 ... 14
Strip lengths, 750/753 Series	8 ... 9 mm / 0.33 in 9 ... 10 mm / 0.37 in
Width	12 mm
Weight	55.5 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