

Delivered without miniature WSB markers

The analog input module provides power to the intrinsically safe signal conditioners located in the hazardous Zone 0+1 and processes their analog signals.

The WAGO-I/O-SYSTEM 750 must be installed either in Zone 2 or in a non-hazardous area.

The 24 V supply is derived from the module's power jumper contacts.

The transmitter supply is non-inherently electronically short-circuit-protected.

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

LED indicators:


- Green LED (availability ON/OFF)
- Red LED ( short circuit, wire breakage, measuring range overflow/ underflow)

Field and system levels are electrically isolated.

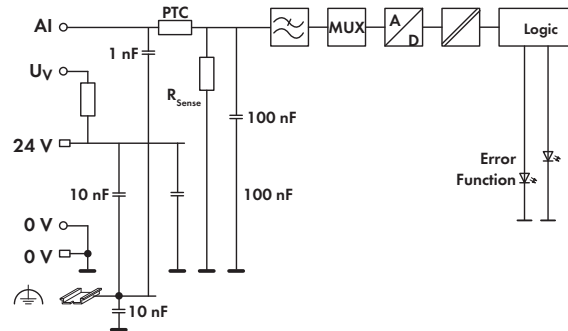
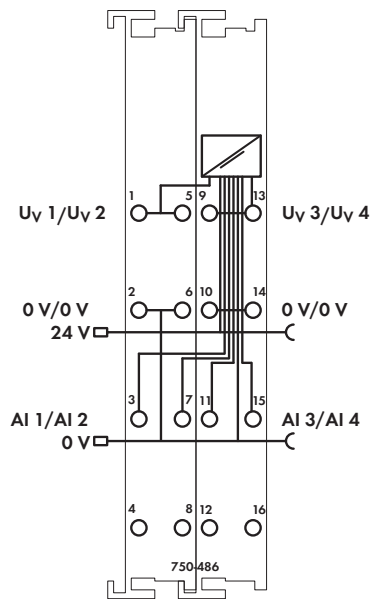
**Note:**

Only use the analog input module in connection with the 24VDC Ex i Supply Module!

General information (e.g., installation regulations) on explosion protection is available in the WAGO-I/O-SYSTEM 750 manuals!

Description	Item No.	Pack. Unit
4AI 0/4-20 mA Ex i	750-486	1
<b>Accessories</b>		
<b>Miniature WSB Quick marking system</b>		
 plain	248-501	50
with marking	see Full Line Catalog Automation Technology	

Technical Data	
Number of inputs	4
Current consumption, system voltage typ. (5 VDC)	45 mA
Voltage via power jumper contacts	24 V DC (provided via Ex-i supply $U_O = \text{max. } 27.3 \text{ V}$ )
Transmitter supply	$U_V = 15 \text{ V}$ at 20 mA
Signal current	0 mA ... 20 mA, 4 mA ... 20 mA, 3.6 mA ... 21 mA
Input resistance	< 200 $\Omega$
Resolution	12 Bit + sign bit
Crosstalk attenuation	$\geq 70 \text{ dB}$
Conversion time	< 10 ms
Measuring error (25 °C)	< $\pm 0.1 \%$ of the full scale value
Temperature coefficient	< $\pm 0.01 \%$ / K of the full scale value
Current consumption, power jumper contact typ. (24 VDC)	19 mA + sensor load
Power consumption $P_{\text{max}}$	2.7 W (at 4 x 21 mA signal current)
Power loss $P_V$	1.5 W (at 4 x 21 mA signal current)
Isolation	$U_{\text{is}} = 375 \text{ V}$ system/supply
Bit width	4 x 16 bits data 4 x 8 bits control / status (optional)



### Technical Data

Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Strip lengths	8 ... 9 mm / 0.33 in
Width	24 mm
Weight	48.5 g
EMC immunity of interference	acc. to EN 61000-6-2, marine applications
EMC emission of interference	acc. to EN 61000-6-3, marine applications

### Explosion Protection

Electric circuit, safety-relevant data	$U_o = 27.3 \text{ V}$ ; $I_o = 98.4 \text{ mA}$ $P_o = 0.672 \text{ W}$ ; Characteristic: Linear
Reactances Ex ia IIC	$L_o = 970 \mu\text{H}$ ; $C_o = 88 \text{ nF}$
Reactances Ex ia IIB	$L_o = 13 \text{ mH}$ ; $C_o = 683 \text{ nF}$
Reactances Ex ia IIA	$L_o = 22 \text{ mH}$ ; $C_o = 2.28 \mu\text{F}$
Reactances Ex ia I	$L_o = 31 \text{ mH}$ ; $C_o = 3.6 \mu\text{F}$
Reactances	(The above-listed ratings do not account for the coincidental occurrence of capacitances and inductances. For ratings taking the coincidental occurrence of capacitances and inductances into account, see manual)

### Standards, Guidelines and Approvals

Conformity marking	CE
ATEX Guideline 2014/34/EU	EN 60079-0, -1, -7, -11, -26, -31
EC EMC guideline 2014/30/EU	
Marine applications	DNV GL
Ⓢ TÜV 12 ATEX 106032 X	I M2 (M1) Ex d [ia Ma] I Mb, II 3 (1) G Ex ec [ia Ga] IIC T4 Gc, II 3 (1) D Ex tc [ia Da] IIIC T135°C Dc
IEC IECEx TUN 12.0039 X	Ex d [ia Ma] I Mb, Ex ec [ia Ga] IIC T4 Gc, Ex tc [ia Da] IIIC T135°C Dc