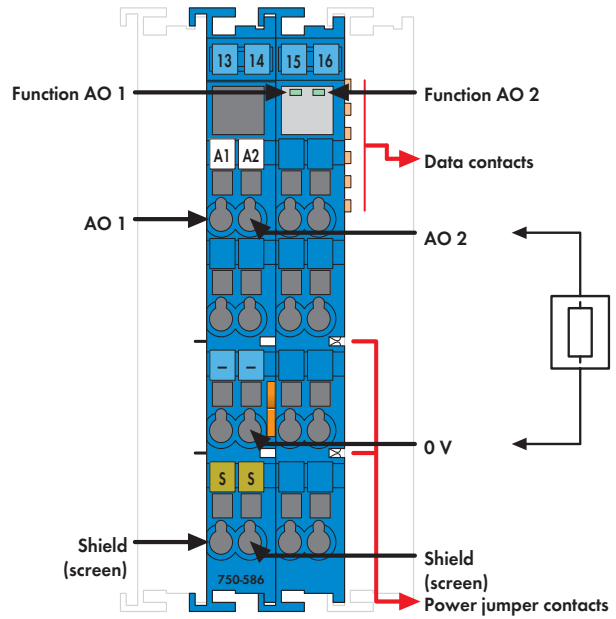


2-Channel Analog Output Module 4-20 mA, Ex i



The analog output module transmits intrinsically safe 4-20mA signals in the hazardous Zone 0+1. The WAGO-I/O-SYSTEM 750 must be installed either in Zone 2 or in a non-hazardous area. Power is derived from the power jumper contacts. The outputs are short-circuit proof.

LED indicators:
 • Green LED (output status)


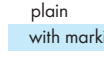
An optocoupler provides electrical isolation between the bus and the field side.

Note:

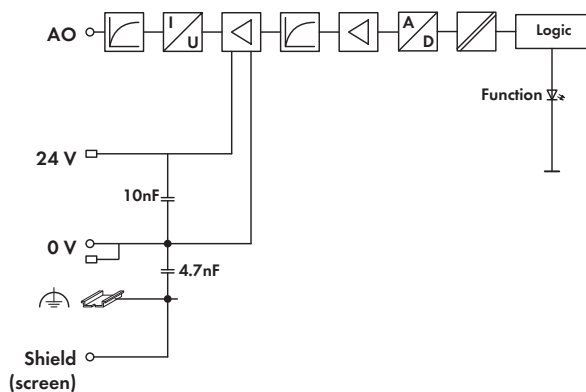
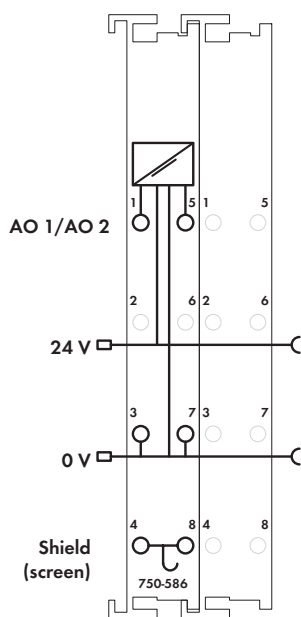
Only use the analog output module in connection with the 24VDC Ex i Supply Module (note the power supply instructions)!

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

Description	Item No.	Pack. Unit
2AO 4-20 mA Ex i	750-586	1

Accessories	Item No.	Pack. Unit
Miniature WSB Quick marking system		
 plain	248-501	5
 with marking	see Full Line Catalog AUTOMATION 2012/2013	

Technical Data	
No. of outputs	2
Max. current consumption (internal)	21 mA
Voltage via power jumper contacts	Supply via 24 V DC Ex i supply module
Signal current	4 mA ... 20 mA
Load impedance	< 500 Ω
Linearity	± 2 LSB
Resolution	12 bits
Conversion time	< 2 ms
Measuring error (25°C)	< ± 0.2 % of the full scale value
Temperature coefficient	< ± 0.01 % / K of the full scale value
Current consumption typ. (field side)	19 mA / module + load (2 x 20 mA)
Power consumption P (max.)	1.5 W
Power loss P _v	0.9 W
Isolation	375 V system/supply
Bit width	2 x 16 bits data



Technical Data

Wire connection	CAGE CLAMP [®]
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14
Strip lengths	8 ... 9 mm / 0.33 in
Width	24mm
Weight	91.6 g
EMC: CE - immunity to interference	acc. to EN 61000-6-2 (2005)
EMC: CE - emission of interference	acc. to EN 61000-6-4 (2007)

Explosion Protection

Ex directive 94 / 9 / EG	EN 60079-0:2012, EN 60079-11:2007, EN 60079-15:2010, EN 60079-31:2009
Electric circuit, safety-relevant data	$V_0 = 27.3 \text{ V}$; $I_0 = 57.5 \text{ mA}$; $P_0 = 392 \text{ mW}$; Characteristic: Linear
Reactances Ex ia IIC	$L_0 = 11 \text{ mH}$; $C_0 = 88 \text{ nF}$
Reactances Ex ia IIB	$L_0 = 56 \text{ mH}$; $C_0 = 680 \text{ nF}$
Reactances Ex ia I	$L_0 = 110 \text{ mH}$; $C_0 = 3.5 \mu\text{F}$
	(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

EC EMC guideline	2004/108/EC
EC low voltage guideline	2006/95/EC
Conformity marking	CE
Shipbuilding	pending
UL 508	
ANSI/ISA 12.12.01	pending
TÜV 07 ATEX 554086 X	I M2 (M1) Ex d [ia Ma] I Mb, II 3 (1) G Ex nA [ia Ga] IIC T4 Gc, II 3 (1) D Ex tc [ia Da] IIC T135°C Dc
	Permissible ambient operating temperature: $0^\circ\text{C} \leq T_A \leq +60^\circ\text{C}$
TUN 09.0001X	Ex d [ia Ma] I Mb, Ex nA [ia Ga] IIC T4 Gc, Ex tc [ia Da] IIC T135°C Dc
	Permissible ambient operating temperature: $0^\circ\text{C} \leq T_A \leq +60^\circ\text{C}$