

The analog output module transmits intrinsically safe 0/4 - 20 mA 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.

**Note:** The analog output module must only be operated via Ex i 24 VDC power supply!

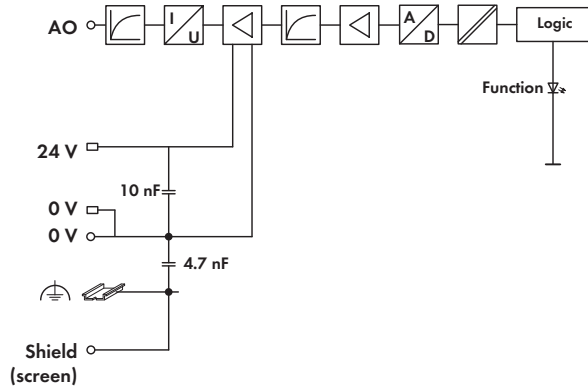
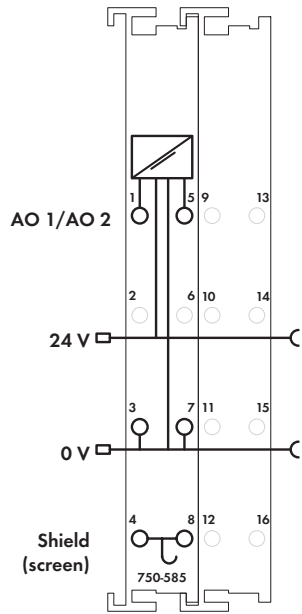
General information (e.g., installation regulations) on explosion protection is available in the WAGO-I/O-SYSTEM 750 manuals!

- LED displays:
- Green LED (output status)

Field and system levels are electrically isolated.

Description	Item No.	Pack. Unit
2AO 0-20 mA Ex i	750-585	1
2AO 4-20 mA Ex i	750-586	1
Accessories	Item No.	Pack. Unit
<b>Miniature WSB Quick marking system</b>		
plain	248-501	5
with marking	see Section 11	

Technical Data	
No. of outputs	2
Current consumption, system voltage typ.	21 mA
(5 VDC)	
Voltage via power jumper contacts	24 V DC (provided via Ex-i supply $U_o = \text{max. } 27.3 \text{ V}$ )
Signal current	0 ... 20 mA (750-585) 4 mA ... 20 mA (750-586)
Load impedance	< 500 Ω
Linearity	± 2 LSB
Resolution	12 bits
Conversion time	< 2 ms
Output error 25 °C	< ± 0.2 % of the full scale value
Temperature coefficient	< ± 0.01 % / K of the full scale value
Current consumption, power jumper	
contact typ. (24 VDC)	19 mA + load (2 x 20 mA)
Power consumption P <sub>max</sub>	1.5 W
Power loss P <sub>v</sub>	0.9 W
Isolation	$U_M = 375 \text{ V system/supply}$
Bit width	2 x 16 bits data



### Technical Data

Wire connection	CAGE CLAMP <sup>®</sup>
Cross sections	0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / AWG 28 ... 14
Strip lengths	8 ... 9 mm / 0.33 in
Width	24 mm
Weight	58.5 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	$U_o = 27.3 \text{ V}$ ; $I_o = 57.5 \text{ mA}$ ; $P_o = 392 \text{ mW}$ ; Characteristic: Linear
Reactances Ex ia IIC	$L_o = 11 \text{ mH}$ ; $C_o = 88 \text{ nF}$
Reactances Ex ia IIB	$L_o = 56 \text{ mH}$ ; $C_o = 680 \text{ nF}$
Reactances Ex ia IIA	$L_o = 90 \text{ mH}$ ; $C_o = 2.2 \mu\text{F}$
Reactances Ex ia I	$L_o = 110 \text{ mH}$ ; $C_o = 3.5 \mu\text{F}$
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, -7, -11, -26, -31
EC EMC guideline 2014/30/EU	
Korea Certification	
Marine applications	ABS <sup>1)</sup> , BV <sup>1)</sup> , DNV <sup>1)</sup> , GL, KR <sup>1)</sup> , LR <sup>1)</sup> , NKK <sup>1)</sup> , PRS <sup>1)</sup> , RINA <sup>1)</sup>
E175199 Ordinary Locations	
TUV 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
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
TUV 14.1911 X	Ex d [ia Ma] I Mb, Ex nA [ia Ga] IIC T4 Gc, Ex tc [ia Da] IIIC T135 °C Dc
UL E480271 Hazardous Locations (Zone classified)	Cl I Zn 2 AEx nA [ia Ga] IIC T4 Gc Cl I Zn 2 AEx nA [ia IIIC] IIC T4 Gc Ex nA [ia Ga] IIC T4 Gc X Ex nA [ia IIIC] IIC T4 Gc X
UL E198726 Hazardous Locations (Division classified)	Class I, Div. 2, Group A B C D, T4

<sup>1)</sup> Does not apply to 750-586