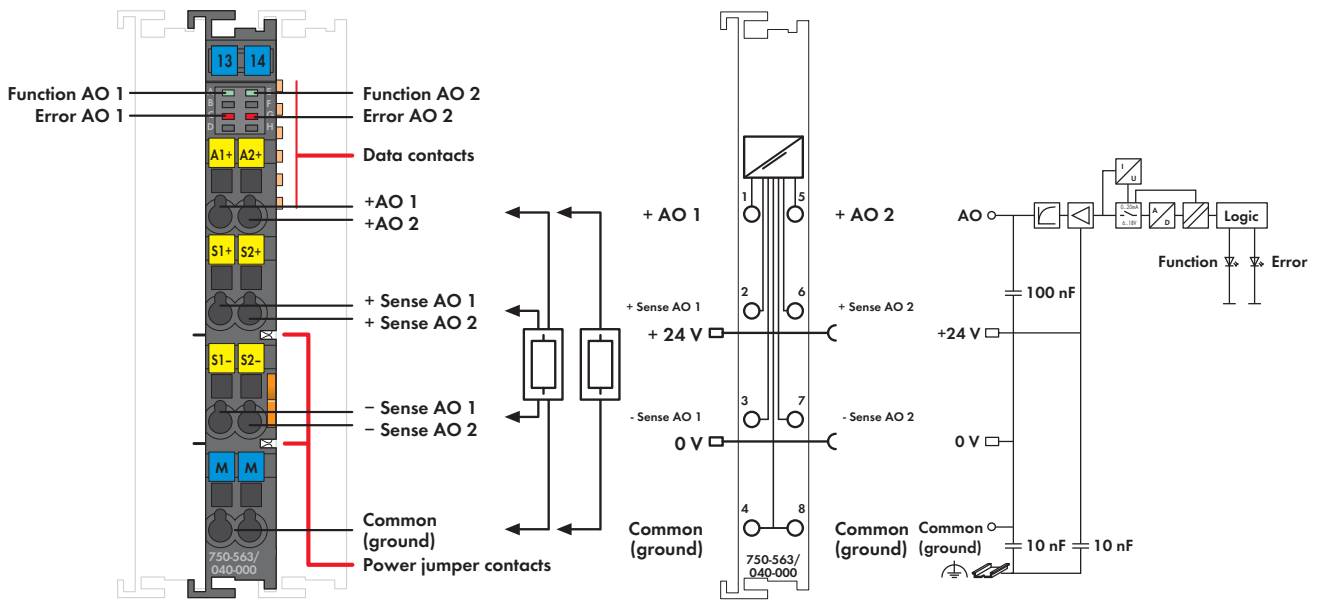


2-Channel Analog Output Module, 0/4 ... 20 mA / 6 ... 18 VDC

for eXTReme environmental conditions; 16-bit, configurable



This analog output module generates 0/4-20 mA output currents or 6-18 V output voltages for the field.

Output ranges can be configured via WAGO-I/O-CHECK or GSD files.

The module has two short-circuit-proof output channels and enables direct connection of two 2-wire actuators to AO 1 and ground or AO2 and ground.

Signals are output via AO 1 or AO 2. In addition, the sense lines from 4-wire actuators can be connected to -Sense AO1 and +Sense AO1 or -Sense AO2 and +Sense AO2.

Both output channels have a common ground potential.

The output signal is electrically isolated and transmitted with a resolution of 16 bits. Both internal system and field side supply power the module.

The module is ideally suited for operation in harsh environmental conditions:

- strongly extended temperature range
- higher dielectric strength and EMC resistance
- higher vibration and shock resistance

Description	Item No.	Pack. Unit
2 AO 0/4-20mA / 6-18VDC configurable / XTR	750-563/040-000	1
Accessories	Item No.	Pack. Unit
Miniature WSB Quick marking system		
plain	248-501	5
with marking	see Section 11	
Approvals		
Conformity marking	CE	
Korea Certification	KC	
Marine applications	GL, LR	
UL 508	UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
TÜV 17 ATEX 193969 X	II 3G Ex ec IIC T4 Gc	
IECEx TUN 16.0046 X	Ex ec IIC T4 Gc	
Technical Data		
Wire connection	CAGE CLAMP®	
Cross sections	0.25 mm² ... 2.5 mm² / AWG 24 ... 14	
Strip lengths	8 ... 9 mm / 0.33 in	
Dimensions (mm) W x H x L	12 x 62 x 100	
Weight	53.5 g	
Operating temperature	-40 °C ... +70 °C	
Storage temperature	-40 °C ... +85 °C	
Operating altitude	without temperature derating: 0 m ... 2000 m; with temperature derating: 2000 m ... 5000 m (0.5 K/100 m); max.: 5000 m	
Vibration resistance	acc. to IEC 60068-2-6 (acceleration: 5g), EN 60870-2-2, IEC 60721-3-1, -3, EN 50155, EN 61373	
Shock resistance	acc. to IEC 60068-2-27 (15g/11 ms/half-sine/ 1000 shocks; 25g/6 ms/1000 shocks), EN 50155, EN 61373	

Technical Data	
No. of outputs	2
Operation modes	configurable: 0 mA ... 20 mA; 4 mA ... 20 mA; 6 V ... 18 V
Load impedance	> 1.8 kΩ (voltage output) < 500 Ω (current output)
Resolution	16 bits
Conversion time (typ.)	5 ms
Recovery time (typ.)	< 300µs
Measuring error (25 °C)	< ± 0.05 % of the scale end value
Temperature coefficient	< ± 100 ppm
Current consumption (internal)	80 mA ... 110 mA
Voltage via power jumper contacts	24 VDC
under laboratory conditions +15 °C ... +35 °C	min. ... 31.2 V ¹⁾
for -40 °C ... +55 °C	min. ... 28.8 V ¹⁾
for +55 °C ... +70 °C	min. ... 26.4 V ¹⁾
	min. voltage range: 21.6 V (24 V - 10 %); min. current range: 20.4 V (24 V - 15 %); ¹⁾ including residual ripple of 15 %
Current via power jumper contacts (max.)	10 A
Rated surge voltage	1 kV
Bit width	2 x 16 bits data 2 x 8 bits control/status (optional)
EMC immunity of interference	acc. to EN 61000-6-1, -2, EN 61131-2, marine applications, EN 50121-3-2, -4, -5, EN 60255-26, EN 60870-2-1, EN 61850-3, IEC 61000-6-5, IEC 61813, VDEW: 1994
EMC emission of interference	acc. to EN 61000-6-3, -4, EN 61131-2, EN 60255-26, marine applications, EN 60870-2-1, EN 61850-3, EN 50121-3-2, -4, -5
Relative humidity	Max. 95 % short-term condensation per Class 3K7/IEC EN 60721-3-3 and E DIN 40046-721-3 (except wind-driven precipitation, water and ice formation)