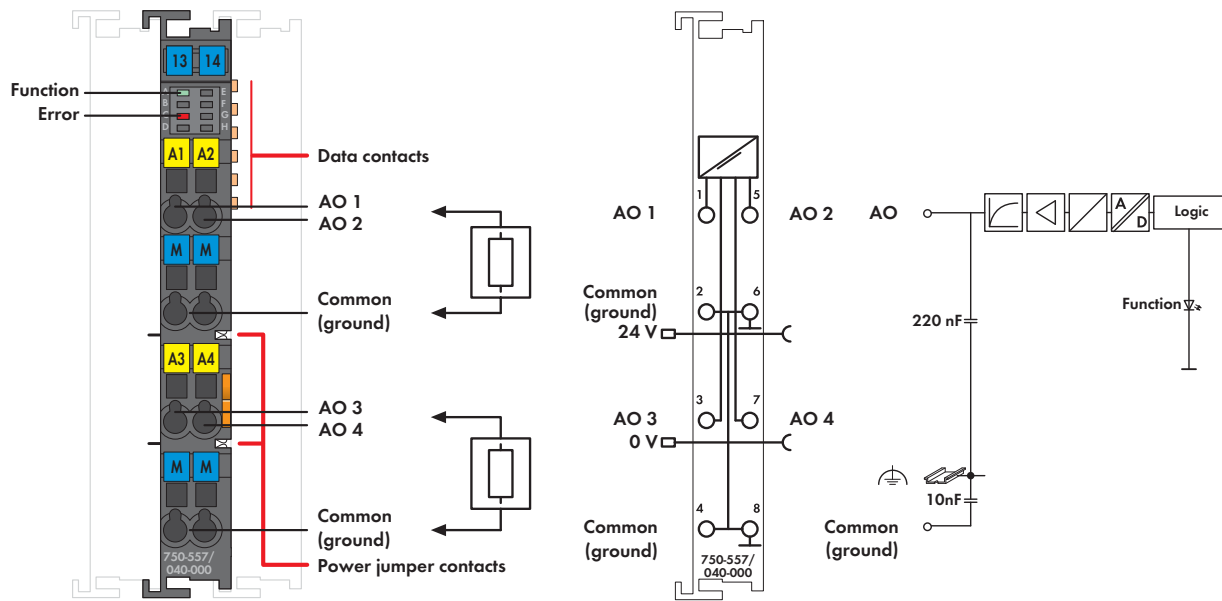


# 4-Channel Analog Output Module $\pm 10$ V/0-10 V


for eXTReme environmental conditions



This analog output module generates standard  $\pm 10$  V or 0-10 V signals. The output signal is electrically isolated and transmitted with a resolution of 12 bits. The internal system supply powers the module. The output channels of the module have a common ground potential.

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
4AO $\pm 10$ VDC /XTR	750-557/040-000	1
4AO 0-10VDC /XTR	750-559/040-000	1
<b>Accessories</b>		
<b>Miniature WSB Quick marking system</b>		
 plain	248-501	5
with marking	see Section 11	
<b>Approvals</b>		
Conformity marking	CE	
Korea Certification	KC	
Marine applications	GL, LR	
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	
<b>Technical Data</b>		
Wire connection	CAGE CLAMP®	
Cross sections	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 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	
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)	
Operating altitude	without temperature derating: 0 m ... 2000 m; with temperature derating: 2000 m ... 5000 m (0.5 K/100 m); max.: 5000 m	

Technical Data	
No. of outputs	4
Signal voltage	$\pm 10$ V (750-557/040-000) 0 V ... 10 V (750-559/040-000)
Load impedance	> 5 k $\Omega$
Resolution	12 bits
Conversion time (typ.)	10 ms
Recovery time (typ.)	100ms
Measuring error (25 °C)	< $\pm 0.1$ % of the full scale value
Temperature coefficient	< $\pm 0.01$ % / K of the full scale value
Max. current consumption (internal)	125 mA
Voltage via power jumper contacts	24 V DC
under laboratory conditions +15 °C ... +35 °C	18 V ... 31.2 V (17.4 V ... 31.2 V) <sup>1)</sup>
for -40 °C ... +55 °C	18 V ... 28.8 V (17.4 V ... 28.8 V) <sup>1)</sup>
for +55 °C ... +70 °C	18 V ... 26.4 V (17.4 V ... 26.4 V) <sup>1)</sup>
	<sup>1)</sup> including residual ripple of 15 %
Current via power jumper contacts (max.)	10 A
Rated surge voltage	1 kV
Bit width	4 x 16 bits data 4 x 8 bits control/status (optional)
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
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, IEEE 1613, 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