



X-AO 16 01

Analog Output Module (4...20 mA)

6.8.0

HIMax®

The X-AO 16 01 analog module is equipped with 16 current outputs with single-channel wiring and with 8 current outputs with redundant wiring. The output nominal range is 4 to 20 mA. The analog outputs are suitable for connecting ohmic, inductive and capacitive loads and lamps.

Product	Part no.	Description
X-AO 16 01	98 5210210	Analog input module, SIL 3
X-CB 014 01	98 5020025	Connector board with screw terminals
X-CB 014 02	98 5020058	Redundant connector board with screw terminals
X-CB 014 03	98 5020026	Connector board with cable plug
X-CB 014 04	98 5020063	Redundant connector board with cable plug
X-CA 011 01 8	98 5050758-8	System cable, 8 m, single/ redundant FTA
X-CA 011 01 15	98 5050758-15	System cable, 15 m, single/ redundant FTA
X-CA 011 01 30	98 5050758-30	System cable, 30 m, single/ redundant FTA

Specifications, Dimensions and Weight

Operating voltage	24 VDC
Current input	min. 0.6 A
Current input per channel pair	80 mA
Number of outputs	16, with single-channel wiring 8, with redundant wiring
Nominal range	4 ... 20 mA
Output current operating range	0 ... 23 mA
Resolution	16 bit (10 000 digit in SILworX)
Value of LSB	≤ 2 μA
Ohmic load	max. 600 Ω
Inductive load	max. 1 mH
Capacitive load	max. 100 μF
Measurement accuracy at 25 °C, max.	≤ 0.2% of final value
Temperature coefficient	≤ ±0,05 of final value
Accuracy with HART communication	2 % of final value
Linearity error	≤ ±0.1%
Settling time	5 ms
Safety-related accuracy	±2% of final value

2 of these outputs (AO1 and AO2; AO3 and AO4...AO15 and AO16) have a common ground potential. The remaining channel pairs and the supply voltage are electrically isolated.

Housing material	Synthetic material (fire-retardant in accordance with NFPA 72)
Operating temperature	from 0 °C to +60 °C

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Specifications, Dimensions and Weight (Continued from X-AO 16 01 Analog Output Module (4 ... 20 mA))

Storage temperature	from -40 °C to +85 °C
Humidity	max. 95 % relative humidity, non-condensing
Type of protection	IP20
Protection class	III in accordance with IEC/EN 61131-2
Pollution	Pollution degree II in accordance with IEC/EN 61131-2
Altitude	< 2000 m
Dimensions	310 x 29.2 x 230 (H x W x D) in mm
Weight approx.	1.2 kg
