



Features

- ✓ Output range 0 ... 20 mA, 4 ... 20 mA
- ✓ Resolution 12 bit
- ✓ Substitute value functionality
- ✓ Diagnostic messages
- ✓ A bi-color LED (blue/red) indicates the module operating status and any malfunctions
- ✓ 2 analog outputs, electrically isolated from the backplane bus
- ✓ 2 process output words (4 bytes)

Analoge-output-module, I, 12 Bit 2x

Analog output modules for the modular fieldbus IO system TB20.

Note: Individual modules cannot be combined with IO systems from other manufacturers.

The scope of delivery already includes the appropriate front connector for the cabling and a base module. The module has 2 analogue outputs.

General information

Order number	600-260-4AB01
Article name	AO 2x I, 0/4 ... 20 mA, 12 bit
Scope of delivery	AO 2x I, 0/4 ... 20 mA, 12 bit
Dimensions (DxWxH)	110 x 14 x 73 mm
Weight	Approx. 70 g
Number of outputs	2
Output ranges	0 ... 20 mA, 4 ... 20 mA
Power dissipation	Max. 1.9 W
Connection for actuators	2-wire connection
Load resistance	Max. 600 ohms
Inductive load	Max. 100 mH
No-load voltage	max. 18 V
Measurement resolution	12 bit
Refresh time	0.2 ms
Settling time	0.2 ms for resistive loads, 2.2 ms for capacitive loads, 0.5 ms for inductive loads (<=1 mH),

Diagnoses	3.3 ms for inductive loads (<=3.3 mH) External reference voltage missing (L+), wire break, parameter assignment error
Process alarms	Upper and lower limit per channel
Parameter configuration length	7 bytes
General error indicator	Red LED
Hot-swap capable	Yes

Electrical isolation

from the backplane bus	Yes
Between the channels	No

Current draw

External	Max. 60 mA
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Internal	Max. 26 mA
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Error limits

Operational error limit in the entire temperature range	$\pm 0.5\%$ relative to the nominal range
Basic error limit at 25 °C	$\pm 0.3\%$ relative to the nominal range
Temperature error	$\pm 0.005\%$ /K relative to the nominal range
Linearity error	$\pm 0.05\%$ /K relative to the nominal range
Repeating accuracy in steady state at 25 °C	$\pm 0.05\%$ /K relative to the nominal range

Ambient conditions

Ambient temperature	0 °C ... +60 °C
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Transport and storage temperature	-20 °C ... +80 °C
Relative air humidity	95 % r H without condensation
Protection rating	IP 20
Certifications	CE, UL

UL

Surrounding Air Temperature	0 °C ... +60 °C
Pollution degree	2

CE

Noise immunity	DIN EN 61000-6-2 "EMC Immunity"
Interference emission	DIN EN 61000-6-4 "EMC Emission"
Vibration and shock resistance	DIN EN 60068-2-6:2008 „Vibration“, DIN EN 60068-2-27:2010 „Shock"