



## AO, 12 Bit, I

AO 2x I, 0/4-20 mA, 12 Bit

- 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)

Parameters for the module

Diagnostic alarm: On | Off

Representation values: SIMATIC\* S7 | SIMATIC\* S5 | INT16

Parameters for each channel

Wire break detection: On | Off

Output range: 0 ... 20 mA | 4 ... 20 mA

Substitute value functionality: Outputs de-energized | Retain last value | Apply substitute value

Substitute value: 16 bit analog value ( $\pm 27648$ )

## Technical specifications

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
<b>Number of outputs</b>	2
<b>Output ranges</b>	0 ... 20 mA, 4 ... 20 mA
Electrical isolation	
from the backplane bus	Yes
Between the channels	No
Current draw	
External	Max. 60 mA
Internal	Max. 26 mA
<b>Power dissipation</b>	Max. 1.9 W
<b>Connection for actuators</b>	2-wire connection
<b>Load resistance</b>	Max. 600 ohms
<b>Inductive load</b>	Max. 100 mH
<b>No-load voltage</b>	max. 18 V

<b>Measurement resolution</b>	12 bit
<b>Values presentation</b>	SIMATIC* S7   SIMATIC* S5   INT16
<b>Refresh time</b>	0.2 ms
<b>Settling time</b>	0.2 ms for resistive loads, 2.2 ms for capacitive loads, 0.5 ms for inductive loads ( $\leq 1$ mH), 3.3 ms for inductive loads ( $\leq 3.3$ mH)
<b>Diagnoses</b>	External reference voltage missing (L+), wire break, parameter assignment error
<b>Process alarms</b>	Upper and lower limit per channel
<b>Error limits</b>	
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
<b>Parameter configuration length</b>	7 bytes
<b>General error indicator</b>	Red LED
<b>Hot-swap capable</b>	Yes
<b>Ambient conditions</b>	
Ambient temperature	0 °C ... +60 °C
Transport and storage temperature	-20 °C ... +80 °C
Relative air humidity	95 % r H without condensation
Protection rating	IP 20
Certifications	CE, UL
<b>UL</b>	
Surrounding Air Temperature	0 °C ... +60 °C
Pollution degree	2
<b>CE</b>	
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“
RoHS	Yes
REACH	Yes