

# S-DIAS Analog Output Module AO 081



with 8 analog outputs

The S-DIAS AO 081 analog output module has eight  $\pm 10$  V analog outputs with a resolution of 12 bits.

## Analog Outputs Specification

Number of channels	8
Output range	-10 ... +10 V
Output value	-10.000 ... +10.000
Resolution	12-bit (ca. 5 mV/LSB)
Refresh time for all channels	1 ms
Output voltage capacity	> 5 kOhm
Allowable capacitive load	maximum 100 nF
Short-circuit protection	yes (1 min.)
Settling time	50 $\mu$ s (63 % of the end value) 100 $\mu$ s (86 % of the end value) 250 $\mu$ s (99 % the end value)
Analog precision	$\pm 0,5$ % of maximum output value

## Electrical Requirements

External +24 V supply	+18-30 V DC	
Current consumption of the +24 V supply without load on the analog outputs	typically 36 mA at +18 V typically 31 mA at +24 V typically 28 mA at +30 V	maximum 40 mA at +18 V maximum 35 mA at +24 V maximum 32 mA at +30 V
Current consumption of the +24 V supply with maximum load on the analog outputs	typically 54 mA at +18 V typically 44 mA at +24 V typically 39 mA at +30 V	maximum 60 mA at +18 V maximum 49 mA at +24 V maximum 44 mA at +30 V
Current consumption of +24 V during short-circuit	typically an additional 25 mA per analog output	
Voltage supply from S-DIAS bus	+5 V	
Current consumption on the S-DIAS bus (+5 V supply)	typically 55 mA	maximum 60 mA

## Voltage Monitor External +24 V Supply

+24 V supply voltage	Supply voltage > 18 V (DC OK-LED lights green)
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## Article Number and Miscellaneous

Article number	20-010-081
Dimensions	12.5 x 104.2 x 72 mm (W x H x D)
Standard	UL 508 (E247993)
Approvals	UL, cUL, CE

## Environmental Conditions

Storage temperature	-20 ... +85 °C	
Environmental temperature	0 ... +60 °C	
Humidity	0-95 %, non-condensing	
Operating conditions	pollution degree 2 altitude up to 2000 m	
EMC resistance	in accordance with EN 61000-6-2 (industrial area)	
EMC noise generation	in accordance with EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	3.5 mm from 5-8.4 Hz 1 g from 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g
Protection type	EN 60529	IP20