

AEA 300, Analog Input Module for Connecting Sensors with Current Signals



Analog input module

The analog input modules from the Systeme Helmholtz GmbH convert the analog signals from the process to the internal signal level of the programmable controllers.

This module is suitable for connection of sensors with current signals in the range up to ± 20 mA.

The signal lines are connected to the corresponding front connectors. You can identify them on the labeling strip.

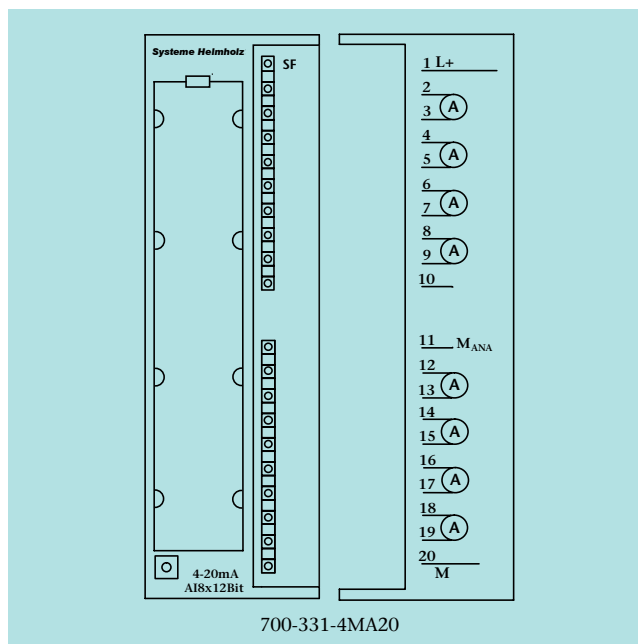
The modules can be fully parameterized with the hardware configurator of the programming software. Hardware configuration is not necessary (**no** range card).

Accessory-Note

The Systeme Helmholtz GmbH supplies front connectors and cable sets (see page 34–36).



Open type Programmable Controllers, for use in Hazardous Locations, Class I, Div. 2 Groups A, B, C, D T6 including Class I Zone 2, IIC.



Technical Data	
Number of inputs	8
Alarms <ul style="list-style-type: none"> limit value alarm diagnostic alarm 	Parameterizable Parameterizable for channels 0 and 2
Diagnostics	Red LED for group error display
Nom. load voltage L+/L-	DC 24 V
Polarity reversal protection	Yes
Input ranges <ul style="list-style-type: none"> current, 4 DMU current, 2 DMU 	± 3.2 mA/25 Ω ± 10 mA/25 Ω 0 ... 20 mA/25 Ω 4 ... 20 mA/25 Ω ± 20 mA/25 Ω 4 ... 20 mA/25 Ω
Permissible input current for current input max.	40 mA
Isolation against backplane bus	Yes
Conversion time/resolution (per chann.) <ul style="list-style-type: none"> integration time noise suppression for interference frequency resolution (SG = sign) (depends on integration time) 	2.5/16.6/20/100 ms 400/60/50/10 Hz 9 + VZ / 12 + VZ / 12 + VZ / 14 + VZ Bit
Operational limit	max. $\pm 0.6\%$
Basic error limit at 25 °C	max. $\pm 0.5\%$
Cable length (shielded)	200 m
Current consumption <ul style="list-style-type: none"> internal (backplane bus) external (L+) 	typ. 120 mA max. 200 mA
Power loss	typ. 1.8 W
Front connector	20-way
Ambient temperature Transport and storage temperature	0 °C ... +60 °C -25 °C ... +75 °C

Ordering Data	
	Order No.
AEA 300 8 current inputs for connecting current sensors	700-331-4MA20
Manual AEA 300, German/English	900-331-0AA01