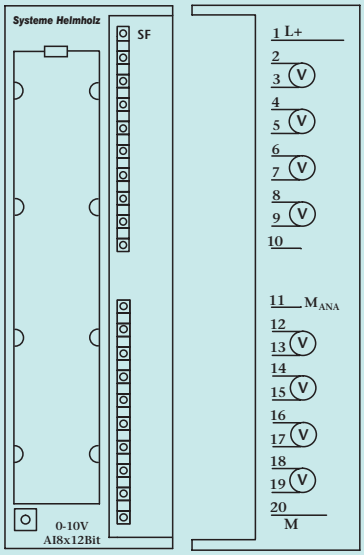
AEA 300, Analog Input Module for Connecting Sensors with Voltage Signals

Analog input module



700-331-0V010

The analog input modules from the Systeme Helmholz 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 voltage signals in the range up to ±10 V.

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).

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Technical Data

Number of inputs		**8**
Alarms - 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 Voltage/ input impedance		 ±80 mV/10 M Ω ±250 mV/10 M Ω ±500 mV/10 M Ω ±1 V/10 M Ω ±2,5 V/100 k Ω ±5 V 100 k Ω 1...5 V/100 k Ω ±10 V/100 k Ω
Permiss. input voltage for voltage input	max.	 20 V
Isolation against backplane bus		yes
Conversion time/resolution (per chann.) - 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 + SG/12 + SG/ 12 + SG/14 + SG Bit
Operational limit	max.	±0,6%
Basic error limit at 25 °C	max.	±0,5%
Cable length (shielded)	max.	200 m (50 m at ±80 mV)
Current consumption - internal (from backplane bus) - external (L+)	typ. max.	 120 mA 200 mA
Power loss	typ.	7 W
Front connector		20-way
Permissible ambient temperature - operating - transport and storage		 0°C ... +60°C -25°C ... +75°C

Ordering Data

	Order-No.
AEA 300 8 voltage inputs; for connection of voltage sensors	700-331-0V010
Manual AEA 300, german/english	900-331-0AA01