



Features

- ✓ Configurable inputs

Input module analog for 300s

The analog input module is suitable for connection of current transmitters in the range up to ± 20 mA, voltage transmitters in the range up to ± 10 V, Pt100/Ni100 sensors, and resistors.

All inputs can be programmed either as voltage or current inputs for Pt100/Ni100 sensors and resistors, freely selectable in their combination.

The signal lines are connected to the corresponding front connectors and can be marked in the label field.

The modules can be fully parameterized with the hardware configurator of the programming software. A hardware configuration is not necessary (no measuring range module).

General information

Order number	700-331-1KF01
Article name	AEA 300, 8 inputs, for connection of current, voltage transmitters, resistors
Scope of delivery	AEA 300, 8 inputs, for connection of current, voltage transmitters, resistors
Dimensions (DxWxH)	116 x 40 x 125 mm
Weight	Approx. 220g
Power dissipation (nominal operation)	ca. 0.8 W
Front connectors	40-pin

Measuring ranges

Voltage	$\pm 50\text{ mV}$, $\pm 500\text{ mV}$, $\pm 1\text{ V}$, $\pm 5\text{ V}$, $\pm 10\text{V}$, $1 \dots 5\text{V}$, $0 \dots 10\text{ V}$
Current	$\pm 20\text{ mA}$, $0 \dots 20\text{ mA}$, $4 \dots 20\text{ mA}$
Resistance	$0 \dots 6\text{ k}\Omega$, $0 \dots 600\text{ }\Omega$
Resistance thermometer (standard and climate)	Pt100, Ni100, Ni1000, LG-Ni1000

Basic error limit at 25 °C

Voltage input	$\pm 0.4\text{ }\%$
Current input	$\pm 0.4\text{ }\%$
Resistance	$\pm 0.4\text{ }\%$
Resistance thermometer	$\pm 0.8\text{ K}$ Pt100 standard, $\pm 1\text{ K}$

Operational error limit in the entire temperature range

Voltage input	$\pm 0.6\text{ }\%$
Current input	$\pm 0.6\text{ }\%$
Resistance	$\pm 0.6\text{ }\%$
Resistance thermometer	$\pm 1\text{ K}$, Pt100, Ni100, standard $\pm 1.2\text{ K}$

Voltage supply

Voltage supply	5 V DC via backplane bus
Current draw	Typ. 160 mA at 5 V (from backplane bus)

Ambient conditions

Ambient temperature	$0\text{ }^{\circ}\text{C} \dots +60\text{ }^{\circ}\text{C}$
Transport and storage temperature	$-25\text{ }^{\circ}\text{C} \dots +75\text{ }^{\circ}\text{C}$
Pollution degree	2
Protection rating	IP20
Approvals	CE

As of: 8 - 2026