

AEA 300, Analog Input Module for Connecting Resistance Thermometers

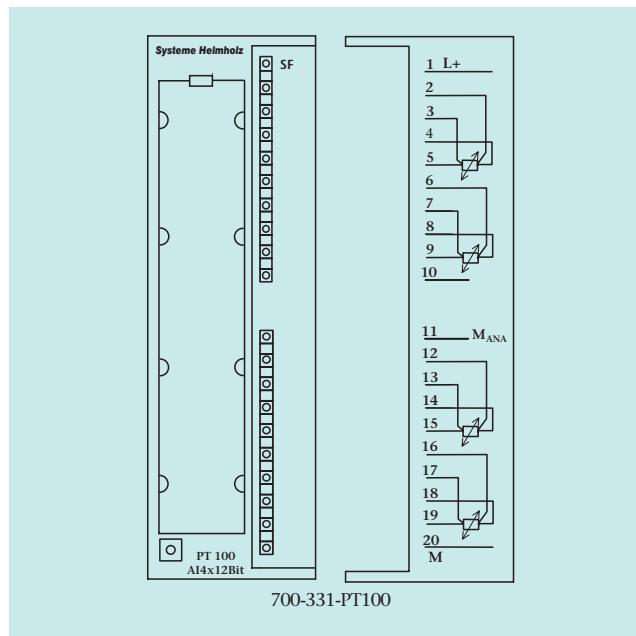


Analog input module

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 Pt100/Ni100 sensors.

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).



Technical Data

Number of inputs	4	
Alarms	parameterizable parameterizable for channels 0 and 2	
- Limit value alarm		
- Diagnostic alarm		
Diagnostics	red LED for group error display	
Nom. load voltage L+/L-	DC 24 V	
Polarity reversal protection	yes	
Input resistance	10 M Ω	
Resistance thermometer	Pt 100, Ni 100 (standard and climatic range)	
Resistance	100, 150, 600 Ω	
Sensor connection	2, 3 or 4-wire connection	
Isolation against backplane bus	yes	
Conversion time/resolution (per chann.)	2,5/16,3/20/100ms 400/60/50/10Hz	
- integration time		
- noise suppression for interference frequency		
- resolution (SG = sign) (depends on integration time)	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
Current consumption		
- internal (from backplane bus)	typ.	120 mA
- external (L+)	max.	200 mA
Power loss	typ.	7 W
Front connector	20-way	
Permissible ambient temperature		
- operating	0°C ... +60°C	
- transport and storage	-25°C ... +75°C	

Ordering Data	
	Order-No.
AEA 300 4 Pt100/Ni100 resistance thermometers	700-331-PT100
Manual AEA 300, german/english	900-331-0AA01