

# Process displays

## For temperature

### PA201



PA201 - Process display

#### Features

- Thermocouples J, K, T and Pt100
- Display in °C (1/10 °C) or °F (1/10 °F)
- LED display, 4 digits and programmable
- DIN housing 48 x 24 mm

#### Technical data - electrical ratings

Voltage supply	21...53 VAC (50/60 Hz) or 10.5...70 VDC 85...265 VAC (50/60 Hz) or 100...300 VDC
Power consumption	1.8 W
Display	LED, 7-segment display (with 60 unit stickers for front)
Number of digits	4-digits
Digit height	10 mm
Display range	-1999...9999 ("OuE" to signal overflow)
Display refresh	250 ms
Function	Digital display of 1 analog measured value
A/D transformer	Principle $\Sigma\Delta$ Resolution 16 bit Measuring rate 25/s Measuring accuracy Pt100 1°: $\pm(0.2\% +1\text{-digit})$ Pt100 0.1°: $\pm(0.2\% +4\text{-digit})$ Temp. coeffic. 100 ppm/°C Thermocouple $\pm(0.2\% +2\text{-digit})$
Analog input	Temperature: Pt100, thermocouples J,K,T
Programmable parameters	Measuring range Resolution 0.1 or 1 °C/°F Measuring unit °C/°F
Limits	Without
Data memory	>10 years in EEPROM
Standard DIN EN 61010-1	Protection class II Overvoltage category II Pollution degree 2
Emitted interference	DIN EN 61000-6-3
Interference immunity	DIN EN 61000-6-2

#### Technical data - mechanical design

Ambient temperature	-10...+60 °C
Storage temperature	-25...+85 °C
Relative humidity	95 % non-condensing
Connection	Spring-loaded terminal connector, detachable
Core cross-section	1 mm <sup>2</sup> (Grid 2.54) 2.5 mm <sup>2</sup> (Grid 7.62)
Protection DIN EN 60529	IP 65 (face)
Operation / keypad	3 softkeys below bezel
Housing type	Built-in housing
Dimensions W x H x L	48 x 24 x 106 mm
Cutout dimensions	45 x 22.2 mm (+0.3)
Mounting depth	95 mm
Mounting type	Front panel installation by clip frame
Weight approx.	50 g
Material	Housing: Polycarbonate, UL 94V-0

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### Part number

PA201.00   AX01

#### Voltage supply

- 4 85...265 VAC and 100...300 VDC
- 5 21...53 VAC and 10.5...70 VDC

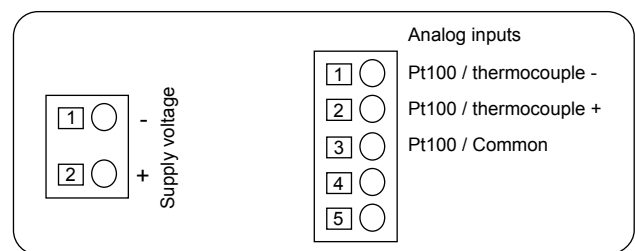
### Inputs and outputs

Thermo sensor	Resolution (°)	Resolution (0.1°)
Pt100	-200...+800 °C -328...+1472 °F	-100.0...+200.0 °C -148.0...+392.0 °F
Thermocouple J	-50...+850 °C -58...+1562 °F	
Thermocouple K	-50...+1250 °C -58...+2282 °F	
Thermocouple T	-200...+400 °C -328...+752 °F	

### Analog input

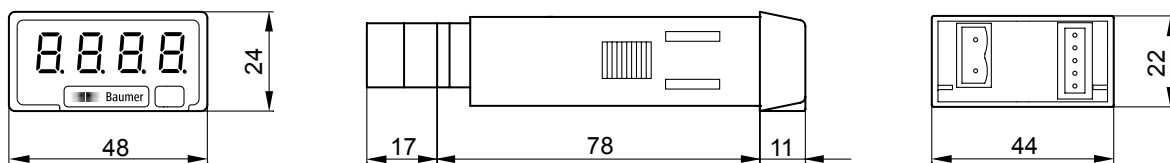
Cold junction compensation	-10...60 °C
Measuring current Pt100	<1.3 mA
Line resistance	Max. 40 Ω

### Connection diagram



### Dimensions

#### PA201 - without clip frame



#### PA201 - clip frame mounting

