

Process displays

For standard signals

PA200



PA200 - Process display

Features

- Voltage input ± 10 V, ± 20 VDC, ± 200 VDC
- Voltage input ± 100 mVDC for measurements by external current shunt (precision resistor)
- Current input ± 20 mA
- Display range can be linearised
- 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 20/s Measuring accuracy $\pm(0.1\% + 3\text{-digit})$ Temp. coeffic. 100 ppm/°C
Analog input	Current or voltage input
Programmable parameters	Measuring range Display range can be linearised Decimal point
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	-20...+70 °C
Relative humidity	95 % non-condensing
Connection	Spring-loaded terminal connector, detachable
Core cross-section	1 mm ² (Grid 2.54) 2.5 mm ² (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

PA200.00 AX01

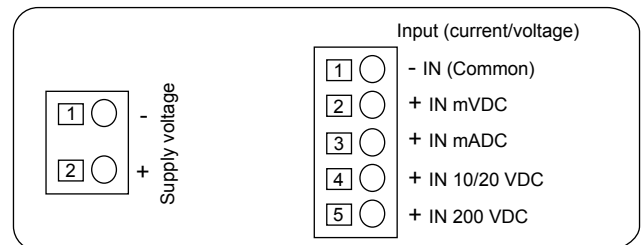
- Voltage supply
- 4 85...265 VAC and 100...300 VDC
 - 5 21...53 VAC and 10.5...70 VDC

Inputs and outputs

Analog input

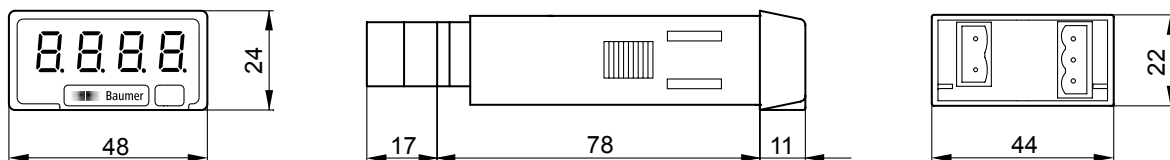
Signal	Resolution	Input resistance
±200 V	0.1 V	1 MΩ
±20 V	0.01 V	1 MΩ
±10 V	1 mV	1 MΩ
±100 mV	0.1 mV	100 MΩ
±20 mA	0.01 mA	20 Ω

Connection diagram



Dimensions

PA200 - without clip frame



PA200 - clip frame mounting

