

Process displays

For current and voltage

PA203



PA203 - Process display

Features

- Voltage input AC/DC up to 600 V
- Current input AC/DC up to 5 A
- 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 (DC) 0...9999 AC ("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 $\pm(0.1\% + 3\text{-digit})$ Temp. coeffic. 100 ppm/°C |
| Analog input | Current or voltage input |
| Programmable parameters | Measuring range Measuring unit Display range can be linearised Decimal point |
| 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 |
| Storing temperature | -25...+85 °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) |
| Installation depth | 95 mm |
| Mounting | Front panel installation by clip frame |
| Weight approx. | 50 g |
| Material | Housing: Polycarbonate, UL 94V-0 |

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Part number

PA203.00 AX01

Voltage supply

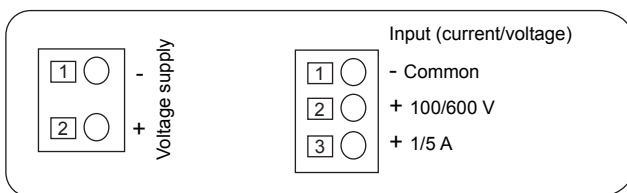
- 4 85...265 VAC and 100...300 VDC
- 5 21...53 VAC and 10.5...70 VDC

Inputs and outputs

| Sensing range | Resolution | Input resistance |
|---------------|------------|------------------|
| 100 V | 0.1 V | 3 M Ω |
| 600 V | 0.1 V | 3 M Ω |
| 1 A | 1 mA | 14 m Ω |
| 5 A | 1 mA | 14 m Ω |

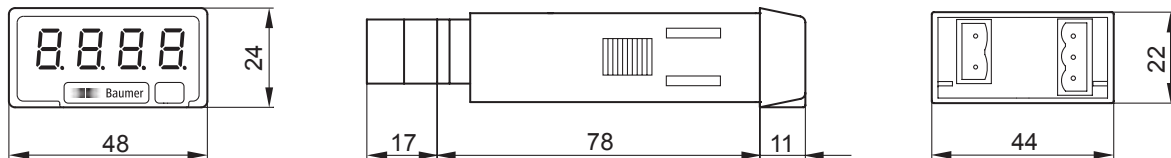
Alternating current (AC): Signal max. 1 kHz

Connection diagram



Dimensions

PA203 - without clip frame



PA203 - clip frame mounting

