

pro^{sense}® Digital Panel Meters - DPM1 Series 1/32 DIN

This model in the ProSense DPM1 series offers a simple, low cost digital display of an analog 4-20mA signal. The 4-digit red LED display is easily scaled into any engineering units from -1999 to 9999 with a selectable decimal point location. Two point direct or reverse acting linear scaling values can be entered manually or by introducing actual sensed process values in Teach mode. The meter is powered from the mA

loop and requires no external power supply. The 1/32 DIN housing takes up minimal panel space and the meter face has an IP65 rating. Configuration parameters can be locked out to prevent unauthorized or accidental changes to the meter's operation. ProSense digital panel meters are backed by a 3 year warranty.

Features:



- 48 x 24mm 1/32 DIN
- Simple menu driven pushbutton configuration
- 4 digit (-1999 to 9999) red LED display
- Selectable decimal point
- Process (4-20mA DC)
- Loop powered
- Display scaling or process teaching modes
- Configuration for direct or reverse acting linear processes
- Total configuration lock out
- 3 year warranty



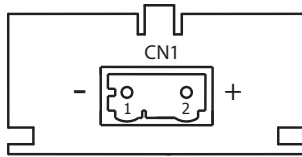
| DPM1 Series Panel Meters | | | |
|--------------------------|--|--------------|---------|
| Model | Description | Weight (lbs) | Price |
| DPM1-A-LP | ProSense digital panel meter, 1/32 DIN, 4-digit red LED, input current signal range(s) of 4 - 20 mA, loop powered. | 0.2 | \$67.00 |

| Technical Specifications | | |
|-----------------------------------|------------------------------------|--|
| Input | Current Range | 4-20mA |
| | Current Resolution | ±0.01mA |
| | Impedance | 10Ω |
| Accuracy (@ 23°C ±5°C) | Maximum error | ±(0.1% of reading +3 digits) |
| | Temperature coefficient | 100 ppm/°C |
| | Warm-Up time | 5 minutes |
| Power Supply | Loop powered | |
| Voltage Drop on Input Loop | 4-20 mA | <5V |
| Conversion | Technique | Single slope |
| | Resolution | 16 bits |
| | Conversion rate | 62 times per second |
| Display | Range | -1999 to 9999, selectable decimal point position |
| | Type | 4 digit 10mm (0.4"), red* |
| | Display refresh rate | 2 times per second |
| | Display/input overrange indication | OL/E |
| Environmental Conditions | Operating temperature | -10°C to +60°C (14°F to 140°F) |
| | Storage temperature | -25°C to +85°C (-13°F to 185°F) |
| | Relative humidity (non-condensing) | <95% @ 40°C (104°F) |
| | Maximum altitude | 2000m |
| | Frontal protection degree | IP65 |
| Environmental Air | No corrosive gases permitted | |
| Agency Approvals | CE | |

* Illumination based on available loop current and will not be as bright as the powered Digital Panel Meters

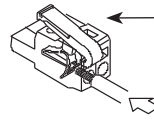
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Wiring



| CN1 | |
|-----|-----------------|
| 1 | (-) 4-20mA loop |
| 2 | (+) 4-20mA loop |

Connection Terminal

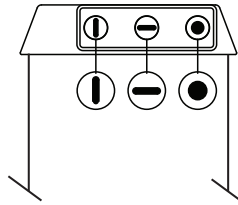


Insertion Tool (included with meter)

Insert wires into the proper terminal while using the insertion tool to open the clip inside the connector. Release the insertion tool to fix wire to the terminal.

| Terminal | |
|-----------------------|--|
| Connector | CN1 |
| Wire cross section | 0.08 to 2.5mm ² (28 to 12 AWG) |
| Strip length | 8 to 9mm |
| Manufacturer | Wago 231-302/026-000 |
| Cage clamp connection | Insertion tool or screwdriver with 0.5 mm x 3.0 mm blade |

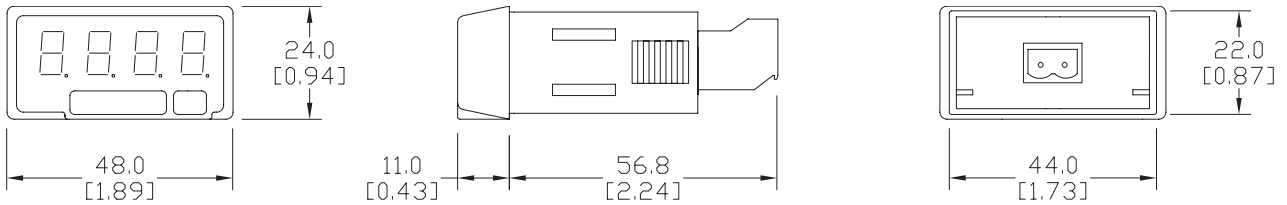
Programming Keys (Bottom View)



- **ENTER:** Enters configuration and validates data and parameters.
- **SHIFT:** Selects mode or shifts blinking digit in configuration.
- Ⓢ **UP:** Increases value of blinking digit in configuration.

Dimensions

mm [inches]



| Installation | |
|----------------------|--------------------------------------|
| Dimensions | 48 x 24 x 56.8mm (1/32 DIN) |
| Panel Cutout | 45 x 22mm (Max. panel thickness 7mm) |
| Case Material | Polycarbonate UL 94 V-0 |

See our website www.AutomationDirect.com for complete Engineering drawings.

For additional information and configuration details download the complete instructions from www.AutomationDirect.com

pro^{sense} Digital Panel Meters



Type DPM1-A-LP



Type DPM1-A-T



Type DPM1-A-2R



Type DPM2



Type DPM3

Description

The ProSense DPM family of digital panel meters includes both 1/32 DIN and 1/8 DIN meter sizes with simple menu-driven pushbutton configuration. A wide variety of input signals can be accepted for process, temperature, load cell, and other applications. Available output options include alarm relays, analog signal retransmission, and sensor excitation voltage. Backed by a 3-year warranty, ProSense digital panel meters offer outstanding features and performance at an incredible price point.

Click on the thumbnail or go to <https://www.automationdirect.com/VID-PS-0007> for a short video on Digital Panel Meters



| DPM Series Digital Panel Meters Selection Guide | | | | | | | |
|---|---|---|---|-----------------------------|--|---|----------|
| Model | Size | Display | Inputs | Outputs | Power | Price | |
| DPM1-A-LP | 1/32 DIN | Red LED*, -1999 to 9999 Selectable decimal point | 4-20mA | None | Loop Powered | \$67.00 | |
| DPM1-A-H | | | ±20mA, ±100mV | | 85-265VAC, 50/60 Hz 100-300VDC | \$88.00 | |
| DPM1-A-L | | | ±10V, ±20V ±200V | | 21-53VAC 50/60 Hz 10.5-70VDC | \$88.00 | |
| DPM1-T-H | | Red LED, -1999 to 9999 | RTD Pt100 (3-wire) TC Type J, K, T or N | | 85-265VAC, 50/60 Hz 100-300VDC | \$88.00 | |
| DPM1-T-L | | | | | 21-53VAC 50/60 Hz 10.5-70VDC | \$88.00 | |
| DPM1-A-2R-H | | Red LED, -1999 to 9999 Selectable decimal point | | ±20mA, ±100mV ±10V, ±60V | 2 Relays Form A SPST Normally Open | 85-265VAC, 50/60 Hz 100-300VDC | \$98.00 |
| DPM1-A-2R-L | | | | | | 21-53VAC 50/60 Hz 10.5-70VDC | \$98.00 |
| DPM1-A-A2R-H | | | | | 2 Relays Form A SPST Normally Open 0/4-20mA | 85-265VAC, 50/60 Hz 100-300VDC | \$103.00 |
| DPM1-A-A2R-L | | | | | | 21-53VAC 50/60 Hz 10.5-70VDC | \$103.00 |
| DPM2-AT-HL | | Red LED, -9999 to 9999 Selectable decimal point | ±20mA, ±10V ±200V, 100-100k Ohm potentiometer, 1k-50k Ohm resistance, RTD Pt100 (3-wire) RTD Pt1000 (4-wire) TC Type J, K, T or N | None | 20-265VAC 50/60 Hz 11-265VDC | \$103.00 | |
| DPM2-AT-2R-HL | | | | 2 Relays Form C SPDT | | \$113.00 | |
| DPM3-AT-H | | | | 1/8 DIN | Red, Green, Amber LED -19999 to 39999 Selectable decimal point | ±20mA, ±10V RTD Pt100 (3-wire) TC Type J, K, T or N Load Cell ±15mV, ±30mV, ±150mV Potentiometer | None |
| DPM3-AT-2R-H | 2 Relays Form C SPDT | \$144.00 | | | | | |
| DPM3-AT-4R-H | 4 Relays Form A Normally Open with shared common | \$155.00 | | | | | |
| DPM3-AT-A-H | | 4-20mA | \$144.00 | | | | |
| DPM3-AT-A2R-H | 2 Relays Form C SPDT 4-20mA | \$160.00 | | | | | |
| DPM3-AT-L | None | 22-53VAC 50/60 Hz 10.5-70VDC | \$129.00 | | | | |
| DPM3-AT-2R-L | 2 Relays Form C SPDT | | \$144.00 | | | | |
| DPM3-AT-4R-L | 4 Relays Form A Normally Open with shared common | | \$155.00 | | | | |
| DPM3-AT-A-L | 4-20mA | \$144.00 | | | | | |
| DPM3-AT-A2R-L | 2 Relays Form C SPDT 4-20mA | \$144.00 | | | | | |

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