

# pro<sup>sense</sup> 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
- 10mm 4-digit (-1999 to 9999) red LED display
- Selectable decimal point
- Process input (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
<u>DPM1-A-LP</u>	ProSense digital panel meter, 1/32 DIN, 10mm 4-digit red LED, input current signal range(s) of 4 - 20 mA, loop powered.	0.2	\$101.00

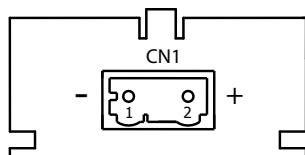
## Technical Specifications

<b>Input</b>	Current Range	4-20mA
	Current Resolution	±0.01mA
	Impedance	10Ω
<b>Accuracy (@ 23°C ±5°C)</b>	Maximum error	±(0.1% of reading +3 digits)
	Temperature coefficient	100 ppm/°C
	Warm-Up time	5 minutes
<b>Power Supply</b>	Loop powered	
<b>Voltage Drop on Input Loop</b>	4-20 mA	<5V
<b>Conversion</b>	Technique	Single slope
	Resolution	16 bits
	Conversion rate	62 times per second
<b>Display</b>	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
<b>Environmental Conditions</b>	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
<b>Environmental Air</b>	No corrosive gases permitted	
<b>Agency Approvals</b>	CE	

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

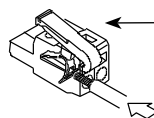
# pro<sup>ense</sup> Digital Panel Meters - DPM1 Series 1/32 DIN

## Wiring



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

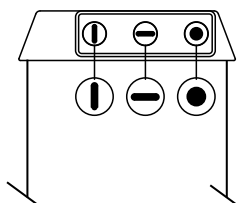
## Connection Terminal



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 <sup>2</sup> (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

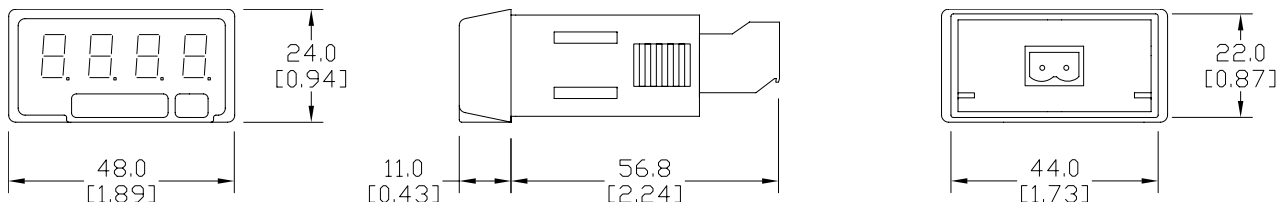
## Programming Keys (Bottom View)



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

See our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.

## Insert



Scan or click the above QR code to be taken to the [DPM1-A-LP Series Quick Start Guide](#)

# proSense® Digital Panel Meters DPM Series

## 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, voltage, current, pulse, frequency, 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.



Type DPM1-A-LP



Type DPM1-A-T



Type DPM1-A-2R



Type DPM2



Type DPM2L



Type DPM3



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 Process Input Selection Guide

Model	Size	Display	Inputs	Outputs	Power	Price			
<b>DPM1-A-LP</b>	1/32 DIN	10mm, Red LED*, -1999 to 9999 Selectable decimal point	4-20mA	None	Loop Powered	\$101.00			
<b>DPM1-A-H</b>			$\pm 20\text{mA}$ , $\pm 100\text{mV}$ $\pm 10\text{V}$ , $\pm 20\text{V}$ $\pm 200\text{V}$		85-265 VAC, 50/60 Hz 100-300 VDC	\$116.00			
<b>DPM1-A-L</b>					21-53 VAC, 50/60 Hz 10.5-70 VDC	\$116.00			
<b>DPM1-T-H</b>			10mm, Red LED, -1999 to 9999		RTD Pt100 (3-wire) TC Type J, K, T or N	85-265 VAC, 50/60 Hz 100-300 VDC	\$116.00		
<b>DPM1-T-L</b>						21-53 VAC, 50/60 Hz 10.5-70 VDC	\$116.00		
<b>DPM1-A-2R-H</b>			8mm, Red LED, -1999 to 9999 Selectable decimal point			$\pm 20\text{mA}$ , $\pm 100\text{mV}$ $\pm 10\text{V}$ , $\pm 60\text{V}$	2 Relays Form A SPST Normally Open	85-265 VAC, 50/60 Hz 100-300 VDC	\$128.00
<b>DPM1-A-2R-L</b>								21-53VAC 50/60 Hz 10.5-70VDC	\$128.00
<b>DPM1-A-A2R-H</b>							2 Relays Form A SPST Normally Open	85-265 VAC, 50/60 Hz 100-300 VDC	\$141.00
<b>DPM1-A-A2R-L</b>							21-53 VAC, 50/60 Hz 13.5-70 VDC	\$141.00	
<b>DPM2-AT-HL</b>			DPM2: 14mm, Red LED, -9999 to 9999 DPM2L: 20mm, Red LED, -1999 to 9999 Selectable decimal point			$\pm 20\text{mA}$ , $\pm 10\text{V}$ $\pm 200\text{V}$ , 100-100k Ohm potentiometer, 1k-50k Ohm resistance, RTD Pt100 (3-wire) RTD Pt1000 (4-wire) TC Type J, K, T or N	None	20-265 VAC, 50/60 Hz 11-265 VDC	\$135.00
<b>DPM2L-AT-HL</b>		\$145.00							
<b>DPM2-AT-2R-HL</b>	2 Relays Form C SPDT	\$148.00							
<b>DPM2L-AT-2R-HL</b>		\$159.00							
<b>DPM3-AT-H</b>	1/8 DIN	14mm, Red, Green, Amber LED -19999 to 39999 Selectable decimal point	$\pm 20\text{mA}$ , $\pm 10\text{V}$ RTD Pt100 (3-wire) TC Type J, K, T or N Load Cell $\pm 15\text{mV}$ , $\pm 30\text{mV}$ , $\pm 150\text{mV}$ Potentiometer	None	85-265 VAC, 50/60Hz 100-300 VDC	\$168.00			
<b>DPM3-AT-2R-H</b>				2 Relays Form C SPDT		\$189.00			
<b>DPM3-AT-4R-H</b>				4 Relays Form A Normally Open with shared common		\$204.00			
<b>DPM3-AT-A-H</b>				4-20mA		\$189.00			
<b>DPM3-AT-A2R-H</b>				2 Relays Form C SPDT 4-20mA		\$211.00			
<b>DPM3-AT-L</b>				None		\$168.00			
<b>DPM3-AT-2R-L</b>				2 Relays Form C SPDT		\$189.00			
<b>DPM3-AT-4R-L</b>				4 Relays Form A Normally Open with shared common		22-53 VAC, 50/60 Hz 10.5-70 VDC	\$204.00		
<b>DPM3-AT-A-L</b>				4-20mA		\$189.00			
<b>DPM3-AT-A2R-L</b>				2 Relays Form C SPDT 4-20mA		\$211.00			

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

# pro<sup>ense</sup> Digital Panel Meters DPM Series

DPM Series Digital Panel Meters Electrical Input Selection Guide						
Model	Size	Display	Inputs	Outputs	Power	Price
<a href="#"><u>DPM1-E-H</u></a>	1/32 DIN	10mm, Red LED, -1999 to 9999 Selectable decimal point	100 / 600 VAC or VDC 1A / 5A AC or DC	None	85-265 VAC, 50/60 Hz 100-300 VDC	\$116.00
<a href="#"><u>DPM1-E-L</u></a>					21-53 VAC, 50/60Hz 10.5-70 VDC	\$116.00
<a href="#"><u>DPM2-E-HL</u></a>	1/8 DIN	14mm, Red LED, -9999 to 9999	600 / 200 / 20 VAC or VDC 1A / 5A / shunt 60mV / shunt 100mV AC or DC	None	20-265 VAC, 50/60 Hz 11-265 VDC	\$135.00
<a href="#"><u>DPM2-E-2R-HL</u></a>				2 Relays Form C SPDT		\$148.00
<a href="#"><u>DPM3-E-H</u></a>		14mm, Red, Green, Amber LED -19999 to 19999 Selectable decimal point	600 / 200 / 20 / 2 VAC True RMS or VDC 1A / 5A / shunt 50mV / shunt 60mV / shunt 100mV AC True RMS or DC	None	85-265 VAC 100-300 VDC	\$196.00
<a href="#"><u>DPM3-E-A2R-H</u></a>				2 Relays Form C SPDT 4-20mA		\$232.00
<a href="#"><u>DPM3-E-L</u></a>				None	22-53 VAC 10.5-70 VDC	\$196.00
<a href="#"><u>DPM3-E-A2R-L</u></a>				2 Relays Form C SPDT 4-20mA		\$232.00

DPM Series Digital Panel Meters Pulse, Frequency Input Selection Guide						
Model	Size	Display	Inputs	Outputs	Power	Price
<a href="#"><u>DPM1-P-H</u></a>	1/32 DIN	10mm, Red LED, 0 to 9999 Selectable decimal point	7kHz (tachometer rpm or rate modes) 9999Hz (frequency meter mode)	None	85-265 VAC 100-300 VDC	\$116.00
<a href="#"><u>DPM1-P-L</u></a>					1-53 VAC 10.5-70 VDC	\$116.00
<a href="#"><u>DPM1-P-A2R-H</u></a>		8mm, Red LED, 0 to 9999 Selectable decimal point	12kHz (tachometer rpm or rate modes) 9999Hz (frequency mode) 100Hz (duty/PWM mode)	2 Relays Form A SPST Normally Open 4-20mA	85-265 VAC 100-300 VDC	\$141.00
<a href="#"><u>DPM1-P-A2R-L</u></a>					21-53 VAC 13.5-70 VDC	\$141.00
<a href="#"><u>DPM2-P-HL</u></a>	1/8 DIN	14mm, Red LED, 0 to 9999, 0 to 999999 Totalizer Selectable decimal point	7.5 kHz (counter mode) 25kHz (tachometer rpm or rate modes)	None	20-265 VAC 11-265 VDC	\$135.00
<a href="#"><u>DPM2-P-2R-HL</u></a>				2 Relays Form C SPDT 4-20mA		\$148.00
<a href="#"><u>DPM3-P-H</u></a>	1/8 DIN	14mm Red, Green, Amber LED -99999 to 99999, -9999999 to 99999999 Totalizer Programmable decimal point	19kHz (without totalizer) 9.9 kHz (with totalizer)	None	85-265 VAC 100-300 VDC	\$168.00
<a href="#"><u>DPM3-P-A2R-H</u></a>				2 Relays Form C SPDT 4-20mA		\$211.00
<a href="#"><u>DPM3-P-L</u></a>				None	22-53 VAC 10.5-70 VDC	\$168.00
<a href="#"><u>DPM3-P-A2R-L</u></a>				2 Relays Form C SPDT 4-20mA		\$211.00