

proSense® Digital Panel Meters - DPM1 Series 1/32 DIN

These models in the ProSense DPM1 series offers a simple, low cost digital display of analog process and DC voltage signals. 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 an external AC or DC 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 ($\pm 10V$, $\pm 20mA$, $\pm 100mV$)

- DC Voltage input ($\pm 200V$, $\pm 20V$)
- AC or DC powered
- Display scaling or process teaching modes
- Configuration for direct or reverse acting linear processes
- Total configuration lock out
- 3 year warranty

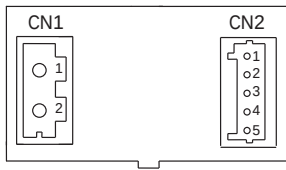


DPM1 Series Panel Meters			
Model	Description	Weight (lbs)	Price
DPM1-A-H	ProSense digital panel meter, 1/32 DIN, 10mm 4-digit red LED, input current signal range(s) of ± 20 mA, input voltage signal range(s) of ± 200 VDC, ± 20 VDC, ± 10 VDC, ± 100 mVDC, 85 to 265 VAC / 100 to 300 VDC operating voltage.	0.2	\$93.00
DPM1-A-L	ProSense digital panel meter, 1/32 DIN, 10mm 4-digit red LED, input current signal range(s) of ± 20 mA, input voltage signal range(s) of ± 200 VDC, ± 20 VDC, ± 10 VDC, ± 100 mVDC, 21 to 53 VAC / 10.5 to 70 VDC operating voltage.	0.2	\$93.00

Technical Specifications					
Input	Voltage				Current
Range	±200V (fixed)	±20V (fixed)	±10V	±100mV	±20mA
Resolution	0.1V	0.01V	1mV	0.1mV	0.01mA
Input Impedance	Volts	1MΩ			
	mV	100MΩ			
	mA	20Ω			
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 and Fuses	DPM1-A-H	85-265VAC 50/60Hz or 100-300VDC (Recommended fusing, 0.1A/250V, 5mm x 20mm glass miniature or DIN 41661 equivalent)			
	DPM1-A-L	21-53VAC 50/60Hz or 10.5-70VDC (Recommended fusing, 0.5A/250V, 5mm x 20mm glass miniature or DIN 41661 equivalent)			
Power Consumption	1.8W				
Conversion	Technique	Sigma-Delta			
	Resolution	±15 bits			
	Conversion rate	20 times per second			
Display	Range	-1999 to 9999, selectable decimal point position			
	Type	4-digit 10mm (0.4"), red			
	Display refresh rate	4 times per second			
	Display/input overrange indication	OL			
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				

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Wiring

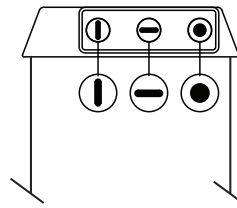


CN1	
AC Supply	DC Supply
1 Neutral	1 -VDC
2 Line	2 +VDC

CN2	
1	- IN (common)
2	+100mV DC
3	+20mA
4	+10/20VDC
5	+200VDC

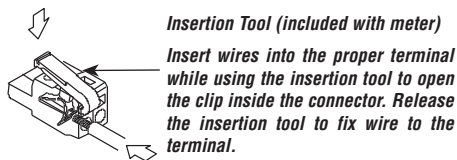
Terminals		
Connector	CN1	CN2
Wire cross section	0.08 to 2.5mm ² (28 to 12 AWG)	0.08 to 0.5mm ² (28 to 20 AWG)
Strip length	8 to 9mm	5 to 6mm
Manufacturer	Wago 231-202/026-000	Wago 733-105
Cage clamp connection	Insertion tool or screwdriver with 0.5 mm x 3.0 mm blade	Insertion tool or screwdriver with 0.3 mm x 1.8 mm blade

Programming Keys (Bottom View)

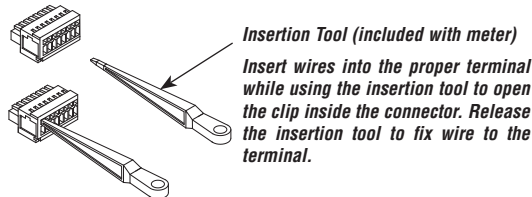


- **ENTER:** Enters configuration and validates data and parameters.
- **SHIFT:** Selects mode or shifts blinking digit in configuration.
- ⬆ **UP:** Increases value of blinking digit in configuration.

CN1 Terminals

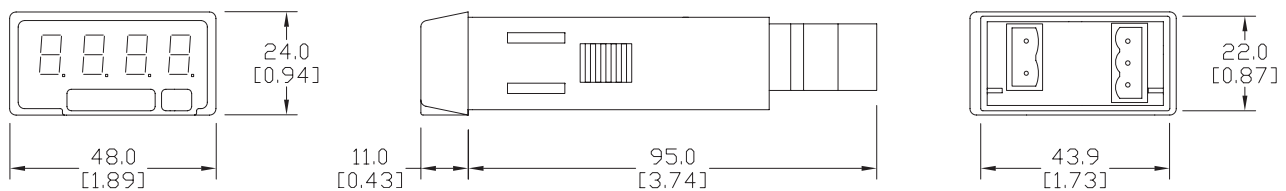


CN2 Terminals



Dimensions

mm [inches]



Installation	
Dimensions	48 x 24 x 95mm (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.

Insert



Scan or click the above QR code to be taken to the DPM1-A-H and DPM1-A-L Series Quick Start Guide

pro^{sense}® 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
DPM1-A-LP	1/32 DIN	10mm, Red LED*, -1999 to 9999 Selectable decimal point	4-20mA	None	Loop Powered	\$72.00
DPM1-A-H			±20mA, ±100mV ±10V, ±20V ±200V		85-265 VAC, 50/60 Hz 100-300 VDC	\$93.00
DPM1-A-L			21-53 VAC, 50/60 Hz 10.5-70 VDC		\$93.00	
DPM1-T-H		10mm, Red LED, -1999 to 9999	85-265 VAC, 50/60 Hz 100-300 VDC		\$93.00	
DPM1-T-L			21-53 VAC, 50/60 Hz 10.5-70 VDC		\$93.00	
DPM1-A-2R-H		8mm, Red LED, -1999 to 9999 Selectable decimal point	±20mA, ±100mV ±10V, ±60V	2 Relays Form A SPST Normally Open	85-265 VAC, 50/60 Hz 100-300 VDC	\$103.00
DPM1-A-2R-L				2 Relays Form A SPST Normally Open 4-20mA	21-53VAC 50/60 Hz 10.5-70VDC	\$103.00
DPM1-A-A2R-H					85-265 VAC, 50/60 Hz 100-300 VDC	\$113.00
DPM1-A-A2R-L					21-53 VAC, 50/60 Hz 10.5-70 VDC	\$113.00
DPM2-AT-HL		1/8 DIN	DPM2: 14mm, Red LED, -9999 to 9999 DPM2L: 20mm, Red LED, -1999 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	20-265 VAC, 50/60 Hz 11-265 VDC
DPM2L-AT-HL	2 Relays Form C SPDT			\$117.00		
DPM2-AT-2R-HL				\$119.00		
DPM2L-AT-2R-HL				\$127.00		
DPM3-AT-H	14mm, 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	85-265 VAC, 50/60Hz 100-300 VDC	\$135.00
DPM3-AT-2R-H				2 Relays Form C SPDT		\$152.00
DPM3-AT-4R-H				4 Relays Form A Normally Open with shared common		\$164.00
DPM3-AT-A-H				4-20mA		\$152.00
DPM3-AT-A2R-H				2 Relays Form C SPDT 4-20mA	22-53 VAC, 50/60 Hz 10.5-70 VDC	\$169.00
DPM3-AT-L				None		\$135.00
DPM3-AT-2R-L				2 Relays Form C SPDT		\$152.00
DPM3-AT-4R-L				4 Relays Form A Normally Open with shared common		\$164.00
DPM3-AT-A-L				4-20mA		\$152.00
DPM3-AT-A2R-L				2 Relays Form C SPDT 4-20mA		\$169.00

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

prosense® Digital Panel Meters DPM Series

DPM Series Digital Panel Meters Electrical Input Selection Guide

Model	Size	Display	Inputs	Outputs	Power	Price
DPM1-E-H	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	\$93.00
DPM1-E-L					21-53 VAC, 50/60Hz 10.5-70 VDC	\$93.00
DPM2-E-HL	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	\$109.00
DPM2-E-2R-HL				2 Relays Form C SPDT		\$119.00
DPM3-E-H		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	\$150.00
DPM3-E-A2R-H				2 Relays Form C SPDT 4-20mA		\$178.00
DPM3-E-L				None	22-53 VAC 10.5-70 VDC	\$150.00
DPM3-E-A2R-L				2 Relays Form C SPDT 4-20mA		\$178.00

DPM Series Digital Panel Meters Pulse, Frequency Input Selection Guide

Model	Size	Display	Inputs	Outputs	Power	Price
DPM1-P-H	1/32 DIN	10mm, Red LED, 0 to 9999 Selectable decimal point	7kHz (tachometer rpm or rate modes)	None	85-265 VAC 100-300 VDC	\$93.00
DPM1-P-L			9999Hz (frequency meter mode)		1-53 VAC 10.5-70 VDC	\$93.00
DPM1-P-A2R-H		8mm, Red LED, 0 to 9999 Selectable decimal point	12kHz (tachometer rpm or rate modes)	2 Relays Form A SPST Normally Open 4-20mA	85-265 VAC 100-300 VDC	\$113.00
DPM1-P-A2R-L			9999Hz (frequency mode) 100Hz (duty/PWM mode)		21-53 VAC 10.5-70 VDC	\$113.00
DPM2-P-HL	1/8 DIN	14mm, Red LED, 0 to 9999, 0 to 999999 Totalizer Selectable decimal point	7.5 kHz (counter mode)	None	20-265 VAC 11-265 VDC	\$109.00
DPM2-P-2R-HL			25kHz (tachometer rpm or rate modes)	2 Relays Form C SPDT 4-20mA		\$119.00
DPM3-P-H		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	\$135.00
DPM3-P-A2R-H				2 Relays Form C SPDT 4-20mA		\$169.00
DPM3-P-L				None	22-53 VAC 10.5-70 VDC	\$135.00
DPM3-P-A2R-L				2 Relays Form C SPDT 4-20mA		\$169.00