Or Sense Digital Panel Meters - DPM1 Series 1/32 DIN

These models in the ProSense DPM1 series offers a simple, low cost digital display of temperature in either Fahrenheit or Celsius from RTD or Thermocouple temperature sensors. The 4-digit red LED display is pre-configured for fixed temperature ranges based on the type of temperature sensor input. Thermocouples are displayed with 1 degree of resolution while RTDs can be displayed with either 0.1 or 1 degree of

resolution. 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 red LED display
- Temperature, °F or °C

- RTD input : Pt100, Resolution: 1°, 0.1°
- TC input : J, K, T, N, Resolution: 1°
- AC or DC powered
- Total configuration lock out
- 3 year warranty

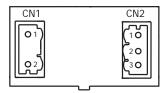


DPM1 Series Panel Meters						
Model	Description	Weight (lbs)	Price			
	ProSense digital panel meter, 1/32 DIN, 4-digit red LED, input thermocouple type(s): J, K, T, N, input RTD type(s): Pt100, 85 to 265 VAC / 100 to 300 VDC operating voltage.	0.2	\$93.00			
DPM1-T-L	ProSense digital panel meter, 1/32 DIN, 4-digit red LED, input thermocouple type(s): J, K, T, N, input RTD type(s): Pt100, 21 to 53 VAC / 10.5 to 70 VDC operating voltage.	0.2	\$93.00			

	Technica	al Specifications			
	Туре	Resolution 1°	Resolution 0.1°		
	RTD: Pt100 (3-wire)	-200 to 800°C	-199.9 to 800.0°C		
	RTD: Pt100 (3-wife)	-328 to 1472°F	-199.9 to 999.9°F		
	TC "J"	-200 to 1100°C			
Input / Resolution / Fixed Display	10 3	-328 to 2012°F			
Range	TC "K"	-200 to 1250°C			
3	i.e. i.	-328 to 2282°F	N/A		
	TC "T"	-200 to 400°C -328 to 752°F	,		
		-328 to 752°F -200 to 1250°C			
	TC "N"	-200 to 1250 C -328 to 2282°F			
TC Cold Junction		·	<u>I</u>		
Compensation Range		-10°C to 60°C (14°F to 14	O°F)		
Pt100 Measuring Current		1mA			
Pt100 Linearization (a=0.00385)		IEC 60751			
Pt100 Max. Lead Resistance		40Ω / wire (balanced)			
	Pt100 1°	\pm (0.2%rdg + 1°C) / \pm (0.2%rdg + 2°I	F); $t<-50^{\circ}C/-58^{\circ}F \pm (1\%rdg+1^{\circ}C) / \pm (1\%rdg+2^{\circ}F)$		
Accuracy	Pt100 0.1°	$\pm (0.2\% \text{rdg} + 0.4^{\circ}\text{C}) / \pm (0.2\% \text{rdg} + 0.7^{\circ}\text{F}); \\ \text{t<-}50.0^{\circ}\text{C} / -58.0^{\circ}\text{F} \pm (1\% \text{rdg} + 0.4^{\circ}\text{C}) / \pm (1\% \text{rdg} + 0.7^{\circ}\text{F})$			
	TC J, K, T, N	±(0.4%rdg + 2°C) / ±(0.4%rdg + 4°F); t<-50°C/-58°F ±(1%rdg+2°C) / ±(1%rdg+4°F)			
	Temperature coefficient	100 ppm/°C			
Accuracy Conditions	Warm up time	10 minutes			
	Temperature		23°C±5°C		
5 4 15	DPM1-T-H	85-265VAC 50/60Hz or 100-300VDC (Recommended fusing, 0.1A/250V, 5mm x 20mm glass miniature or DIN 41661 equivalent)			
Power Supply and Fuses	DPM1-T-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	TITA ZOTITI GIASS TITINALATO OF DITA TTOOT OQUIVATORIS		
Tower concumpation	Technique		Sigma-Delta		
Conversion	Resolution		±15 bits		
	Conversion rate	25	times per second		
	Range		1999 to 9999		
Diantau	Туре		it 10mm (0.4"), red		
Display	Display refresh rate	4 t	imes per second		
	Display/input overrange indication		OuE		
	Operating temperature		+60°C (14°F to 140°F)		
	Storage temperature	-25°C to +85°C (-13°F to 185°F)			
Environmental Conditions	Relative humidity (non condensing) <95% @ 40°C (104°		% @ 40°C (104°F)		
	Maximum altitude	2000m			
	Frontal protection degree	IP65			
Environmental Air		No corrosive gases permit	ted		
Agency Approvals		CE			

DrSense Digital Panel Meters - DPM1 Series 1/32 DIN

Wiring



	CN1					
A	C Supply	D(Supply			
1	Neutral	1	-VDC			
2	Line	2	+VDC			

CN2			
1	-TC / Common Pt100		
2	+TC / Common Pt100		
3	Pt100		

Terminals					
Connector	CN1	CN2			
Wire cross section	0.08 to 2.5mm ² (28 to 12 AWG)	0.08 to 2.5mm ² (28 to 12 AWG)			
Strip length	8 to 9mm	8 to 9mm			
Manufacturer	Wago 231-202/026-000	Wago 231-303/026-000			
Cage clamp connection	Insertion tool or screwdriver with 0.5 mm x 3.0 mm blade	Insertion tool or screwdriver with 0.5 mm x 3.0 mm blade			

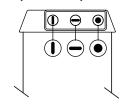
CN1 and **CN2** Terminals



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.

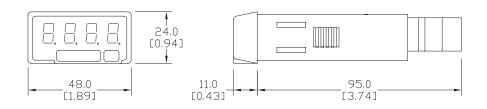
Programming Keys (Bottom View)

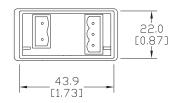


- ENTER: Enters configuration and validates data and parameters.
- SHIFT: Selects mode or shifts blinking digit in configuration.
- UP: Increases value of blinking digit in configuration.

Dimensions

mm [inches]





	Installation
	48 x 24 x 95mm (1/32 DIN)
	45 x 22mm (Max. panel thickness 7mm)
Case Material	Polycarbonate UL 94 V-0

See our website <u>www.AutomationDirect.com</u> for complete Engineering drawings.

Insert



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

PrSense Digital Panel Meters DPM Series







Type DPM1-A-LP

Type DPM1-A-T

Type DPM1-A-2R



Type DPM2





Type DPM2L 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, 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.



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 Mete	· · · · · · · · · · · · · · · · · · ·			
Model	Size	Display	Inputs	Outputs	Power	Price
DPM1-A-LP			4-20mA		Loop Powered	\$72.00
DPM1-A-H		10mm, Red LED*, -1999 to 9999 ±20mA, ±100mV Selectable decimal point ±10V, ±20V ±200V	i i		85-265 VAC, 50/60 Hz 100-300 VDC	\$93.00
DPM1-A-L			'	None	21-53 VAC, 50/60 Hz 10.5-70 VDC	\$93.00
DPM1-T-H		10mm, Red LED, -1999 to 9999	RTD Pt100 (3-wire)		85-265 VAC, 50/60 Hz 100-300 VDC	\$93.00
DPM1-T-L	1/32 DIN	1011111, 1104 225, 1000 to 0000	TC Type J, K, T or N		21-53 VAC, 50/60 Hz 10.5-70 VDC	\$93.00
DPM1-A-2R-H				2 Relays Form A SPST Normally	85-265 VAC, 50/60 Hz 100-300 VDC	\$103.00
DPM1-A-2R-L		8mm, Red LED, -1999 to 9999	±20mA, ±100mV	Open	21-53VAC 50/60 Hz 10.5-70VDC	\$103.00
DPM1-A-A2R-H		Selectable decimal point	±10V, ±60V	2 Relays Form A SPST Normally	85-265 VAC, 50/60 Hz 100-300 VDC	\$113.00
DPM1-A-A2R-L				Open 4-20mA	21-53 VAC, 50/60 Hz 10.5-70 VDC	\$113.00
DPM2-AT-HL			±20mA, ±10V	None		\$109.00
DPM2L-AT-HL		DPM2: 14mm, Red LED, -9999 to 9999	±200V, 100-100k Ohm potentiometer,	INUITE		\$117.00
DPM2-AT-2R-HL		DPM2L: 20mm, Red LED, -1999 to 9999 Selectable decimal point RTD Pt1000 (4-wire) TC Type J, K, T or N	0.00	20-265 VAC, 50/60 Hz 11-265 VDC	\$119.00	
DPM2L-AT-2R-HL			RTD Pt1000 (4-wire)	2 Relays Form C SPDT		\$127.00
DPM3-AT-H				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	1/8 DIN			4-20mA		\$152.00
DPM3-AT-A2R-H		14mm, Red, Green, Amber LED	±20mA, ±10V RTD Pt100 (3-wire) TC Type J, K, T or N	2 Relays Form C SPDT 4-20mA		\$169.00
DPM3-AT-L		-19999 to 39999 Selectable decimal point	Load Cell ±15mV, ±30mV, ±150mV	None		\$135.00
DPM3-AT-2R-L			Potentiometer	2 Relays Form C SPDT		\$152.00
DPM3-AT-4R-L				4 Relays Form A Normally Open with shared common	22-53 VAC, 50/60 Hz 10.5-70 VDC	\$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

DrSense Digital Panel Meters DPM Series

	DPM Series Digital Panel Meters Electrical Input Selection Guide						
Model	Size	Display	Inputs	Outputs	Power	Price	
DPM1-E-H		4 (00 DIN	10mm, Red LED, -1999 to 9999	100 / 600 VAC or VDC	None	85-265 VAC, 50/60 Hz 100-300 VDC	\$93.00
DPM1-E-L	1/32 DIN	Selectable decimal point	1A / 5A AC or DC	None	21-53 VAC, 50/60Hz 10.5-70 VDC	\$93.00	
DPM2-E-HL		14mm Park LED 0000 to 0000	600 / 200 / 20 VAC or VDC	None	20-265 VAC, 50/60 Hz	\$109.00	
DPM2-E-2R-HL		14mm, Red LED, -9999 to 9999	1A / 5A / shunt 60mV / shunt 100mV AC or DC	2 Relays Form C SPDT	11-265 VDC	\$119.00	
DPM3-E-H				None		\$150.00	
DPM3-E-A2R-H	1/8 DIN	14mm, Red, Green, Amber LED	600 / 200 / 20 / 2 VAC True RMS or VDC	2 Relays Form C SPDT 4-20mA	85-265 VAC 100-300 VDC	\$178.00	
DPM3-E-L		-19999 to 19999 Selectable decimal point	1A / 5A / shunt 50mV / shunt 60mV / shunt 100mV AC True RMS or DC	None	_	\$150.00	
DPM3-E-A2R-L				2 Relays Form C SPDT 4-20mA	22-53 VAC 10.5-70 VDC	\$178.00	

	D	PM Series Digital Panel Meters Pu	Ise, Frequency Input S	election Guid	e		
Model	Size	Display	Inputs	Outputs	Power	Price	
DPM1-P-H			10mm, Red LED, 0 to 9999	7kHz (tachometer rpm or rate modes)	Nana	85-265 VAC 100-300 VDC	\$93.00
DPM1-P-L	1/20 DIN	Selectable decimal point	9999Hz (frequency meter mode)	None	1-53 VAC 10.5-70 VDC	\$93.00	
DPM1-P-A2R-H	1/32 DIN	8mm, Red LED, 0 to 9999	12kHz (tachometer rpm or rate modes)	2 Relays Form A SPST Normally	85-265 VAC 100-300 VDC	\$113.00	
DPM1-P-A2R-L		Selectable decimal point	9999Hz (frequency mode) 100Hz (duty/PWM mode)	Open 4-20mA	21-53 VAC 10.5-70 VDC	\$113.00	
DPM2-P-HL	M2-P-HL	14mm, Red LED, 0 to 9999, 0 to 999999 Totalizer	7.5 kHz (counter mode)	None	20-265 VAC	\$109.00	
DPM2-P-2R-HL		Selectable decimal point	25kHz (tachometer rpm or rate modes)	2 Relays Form C SPDT 4-20mA	11-265 VDC	\$119.00	
<i>DPM3-P-H</i>	- 1/8 DIN			None	85-265 VAC	\$135.00	
DPM3-P-A2R-H	I/O DIIN	14mm Red, Green, Amber LED -99999 to 99999, -9999999 to 9999999 Totalizer	19kHz (without totalizer)	2 Relays Form C SPDT 4-20mA	100-300 VDC	\$169.00	
DPM3-P-L		Programmable decimal point	9.9 kHz (with totalizer)	None	22-53 VAC	\$135.00	
DPM3-P-A2R-L				2 Relays Form C SPDT 4-20mA	10.5-70 VDC	\$169.00	