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

These models in the ProSense DPM1-E series offers a simple, low cost digital display of AC or DC voltage or amperage electrical parameters. 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 DC/0 to 9999 AC) red LED display
- · Selectable decimal point
- AC/DC Voltage Input (100/600V)
- AC/DC Amperage input 1A/5A
- · AC or DC powered
- Display scaling or teaching modes
- Configuration for direct or reverse acting
- Total configuration lock out
- · 3 year warranty

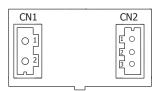


DPM1-E Series Panel Meters						
Model	Description	Weight (lbs)	Price			
<u>DPM1-E-H</u>	ProSense digital panel meter, panel mount, 1/32 DIN, 10mm 4-digit red LED, AC/DC current or voltage input, 85-265 VAC/100-300 VDC operating voltage.	0.25	\$119.00			
<u>DPM1-E-L</u>	ProSense digital panel meter, panel mount, 1/32 DIN, 10mm 4-digit red LED, AC/DC current or voltage input, 21-53 VAC/10.5-70 VDC operating voltage.	0.24	\$119.00			

Technical Specifications						
Input	Voltage	•	Current			
AC Range	0 to 600V	0 to 100V	o 100V 0 to 1A 0 to 5A			
AC Frequency Range		45Hz to 1kHz s	ine wave			
DC Range	-199.9 to 600V	± 100V ± 1A -1.999 to				
Resolution	0.1V	0.1V 1mA 1mA				
Input Impedance	Volts	3ΜΩ				
піриї ппречапсе	Amps		$14m\Omega$			
	DC, 600V AC, 5A AC		±(0.2% of reading +3 digits)			
Accuracy	100V AC, 1A AC		±(0.4% of reading +4 digits)			
$(@ 23^{\circ}C \pm 5^{\circ}C)$	Temperature coefficient		100 ppm/°C			
	Warm-Up time		5 minutes			
Power Supply and Fuses	DPM1-E-H	85-265VAC 50/60Hz or 100-300VDC (Recommended fusing, 0.1A/250V, DIN 41661) 21-53VAC 50/60Hz or 10.5-70VDC				
ruwei Suppiy allu ruses	DPM1-E-L	21-53VAC 50/60Hz or 10.5-70VDC (Recommended fusing, 0.5A/250V, DIN 41661)				
Power Consumption		1.8W				
	Technique	Sigma-Delta				
Conversion	Resolution	±15 bits				
	Conversion rate	20 times per second				
	Range	-1999 to 9999 DC, 0 to 9999 AC, selectable decimal point position				
Display	Туре	4 digit 10mm (0.4"), red				
	Display refresh rate		4 times per second			
	Display/input overrange indication		Du E			
	Operating temperature	-	10°C to +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°F)				
	Maximum altitude		2000m			
	Frontal protection degree	IP65				
Environmental Air		No corrosive gases permitted				
Agency Approvals		CE				

DYSense Digital Panel Meters - DPM1-E Series 1/32 DIN

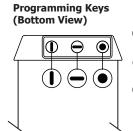
Wiring



CN1						
/	C Supply					
1 Neutral		1	-VDC			
2	Line	2	+VDC			

	CN2				
1	IN (common)				
2	100V / 600V (AC/ DC)				
3	1A / 5A (AC/DC)				

Terminals						
Connector	CN1	CN2				
Wire cross section	0.08 to 2.5mm² (28 to 12 AWG)	0.08 to 2.5mm² (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				



- 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.

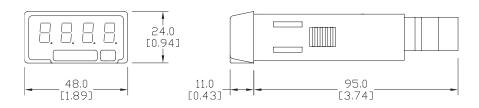
CN1 and CN2 Terminals

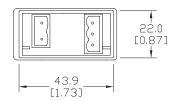


Insertion Tool (included with meter)
Insert wires into the proper terminal while
using the insertion tool to open the clip
inside the connector. Release the insertion
tool to fix wire to the terminal.

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-E Series Quick Start Guide

DrSense 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

	DP	M Series Digital Panel	Meters Process	Input Sele d	ction Guide	
Model	Size	Display	Inputs	Outputs	Power	Price
DPM1-A-LP			4-20mA ±20mA, ±100mV ±10V, ±20V ±200V	None	Loop Powered	\$104.00
<u>DPM1-A-H</u>		10mm, Red LED*, -1999 to 9999 Selectable decimal point			85-265 VAC, 50/60 Hz 100-300 VDC	\$119.00
DPM1-A-L		Colociable decirial point			21-53 VAC, 50/60 Hz 10.5-70 VDC	\$119.00
<u>DPM1-T-H</u>		40 D. H.ED. 4000 I. 0000	RTD Pt100 (3-wire)		85-265 VAC, 50/60 Hz 100-300 VDC	\$119.00
<u>DPM1-T-L</u>	1/32 DIN	10mm, Red LED, -1999 to 9999	TC Type J, K, T or Ń		21-53 VAC, 50/60 Hz 10.5-70 VDC	\$119.00
<u>DPM1-A-2R-H</u>				2 Relays Form A SPST	85-265 VAC, 50/60 Hz 100-300 VDC	\$132.00
DPM1-A-2R-L		8mm, Red LED, -1999 to 9999	±20mA ±100mV	Normally Open	21-53VAC 50/60 Hz 10.5-70VDC	\$132.00
DPM1-A-A2R-H		Selectable decimal point	±20mA, ±100mV ±10V, ±60V	2 Relays Form A SPST	85-265 VAC, 50/60 Hz 100-300 VDC	\$145.00
DPM1-A-A2R-L				Normally Open 4-20mA	21-53 VAC, 50/60 Hz 13.5-70 VDC	\$145.00
DPM2-AT-HL		BB140 44 B 11 EB 00004	±20mA, ±10V	None		\$139.00
DPM2L-AT-HL		DPM2: 14mm, Red LED, -9999 to 9999	±200V, 100-100k Ohm potentiometer,	None	20-265 VAC, 50/60 Hz	\$149.00
DPM2-AT-2R-HL	HI-ZN-IIL	DPM2L: 20mm, Red LED, -1999 to 9999	1k-50k Ohm resistance, RTD Pt100 (3-wire)	2 Relays Form C SPDT	11-265 VDC	\$152.00
DPM2L-AT-2R-HL		Selectable decimal point	Selectable decimal point RTD Pt1000 (4-wire) TC Type J, K, T or N			\$164.00
DPM3-AT-H				None		\$173.00
DPM3-AT-2R-H				2 Relays Form C SPDT		\$195.00
<u>DPM3-AT-4R-H</u>				4 Relays Form A Normally Open with shared common	85-265 VAC, 50/60Hz 100-300 VDC	\$210.00
DPM3-AT-A-H	1/8 DIN			4-20mA		\$195.00
DPM3-AT-A2R-H	1/8 DIN	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		\$217.00
DPM3-AT-L		-19999 to 39999 Selectable decimal point	Load Cell ±15mV, ±30mV, ±150mV	None		\$173.00
DPM3-AT-2R-L			Potentiometer	2 Relays Form C SPDT		\$195.00
DPM3-AT-4R-L				4 Relays Form A Normally Open with shared common	22-53 VAC, 50/60 Hz 10.5-70 VDC	\$210.00
DPM3-AT-A-L				4-20mA		\$195.00
DPM3-AT-A2R-L				2 Relays Form C SPDT 4-20mA		\$217.00

^{*} 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		
<u>DPM1-E-H</u>	4/00 DIN	- 1/32 DIN	10mm, Red LED, -1999 to 9999	100 / 600 VAC or VDC		85-265 VAC, 50/60 Hz 100-300 VDC	\$119.00	
DPM1-E-L	1/32 DIN	Selectable decimal point		None	21-53 VAC, 50/60Hz 10.5-70 VDC	\$119.00		
DPM2-E-HL		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	\$139.00		
DPM2-E-2R-HL		1411111, Red LED, -9999 (0 9999		2 Relays Form C SPDT		\$152.00		
<u>DPM3-E-H</u>				None		\$202.00		
<u>DPM3-E-A2R-H</u>	1/8 DIN	14mm, Red, Green, Amber LED	600 / 200 / 20 / 2 VAC True RMS or VDC 1A / 5A / shunt 50mV /	2 Relays Form C SPDT 4-20mA	85-265 VAC 100-300 VDC	\$239.00		
DPM3-E-L		-19999 to 19999 Selectable decimal point	shunt 60mV / shunt 100mV AC	None		\$202.00		
<u>DPM3-E-A2R-L</u>			True RMS or DC	2 Relays Form C SPDT 4-20mA	22-53 VAC 10.5-70 VDC	\$239.00		

DPM Series Digital Panel Meters Pulse, Frequency Input Selection Guide								
Model	Size	Display	Inputs	Outputs	Power	Price		
<u>DPM1-P-H</u>			10mm, Red LED, 0 to 9999	7kHz (tachometer rpm or rate modes)	None	85-265 VAC 100-300 VDC	\$119.00	
<u>DPM1-P-L</u>	1/32 DIN	Selectable decimal point 9999Hz (frequency meter mode)	9999Hz (frequency meter mode)	None	1-53 VAC 10.5-70 VDC	\$119.00		
<u>DPM1-P-A2R-H</u>	1/32 DIN	8mm, Red LED, 0 to 9999	12kHz (tachometer rpm or rate modes)	2 Relays Form A SPST	85-265 VAC 100-300 VDC	\$145.00		
<u>DPM1-P-A2R-L</u>		Selectable decimal point	9999Hz (frequency mode) 100Hz (duty/PWM mode)		21-53 VAC 13.5-70 VDC	\$145.00		
DPM2-P-HL		14mm, Red LED, 0 to 9999, 0 to 999999 Totalizer	7.5 kHz (counter mode) 25kHz (tachometer rpm or	None	20-265 VAC	\$139.00		
DPM2-P-2R-HL		Selectable decimal point	rate modes)	2 Relays Form C SPDT	11-265 VDC	\$152.00		
<u>DPM3-P-H</u>	1/8 DIN			None	85-265 VAC	\$173.00		
<u>DPM3-P-A2R-H</u>	I/O DIN	14mm Red, Green, Amber LED -99999 to 99999, -9999999 to 99999999	19kHz (without totalizer)	2 Relays Form C SPDT 4-20mA	100-300 VDC	\$217.00		
<u>DPM3-P-L</u>		Totalizer Programmable decimal point	9.9 kHz (with totalizer)	None	22-53 VAC	\$173.00		
<u>DPM3-P-A2R-L</u>				2 Relays Form C SPDT 4-20mA	10.5-70 VDC	\$217.00		

www.automationdirect.com Panel Meters tPMC-2