proSense® 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
DPM1-E-H	ProSense digital panel meter, 1/32 DIN, 10mm 4-digit red LED, AC/DC current or voltage input, 85 to 265 VAC/100 to 300 VDC operating voltage.	0.25	$119.00
DPM1-E-L	ProSense digital panel meter, 1/32 DIN, 10mm 4-digit red LED, AC/DC current or voltage input, 21 to 53 VAC/10.5 to 70 VDC operating voltage.	0.24	$119.00

Technical Specifications				
Input	Voltage		Current	
AC Range	0 to 600V	0 to 100V	0 to 1A	0 to 5A
AC Frequency Range	45Hz to 1kHz sine wave			
DC Range	-199.9 to 600V	± 100V	± 1A	-1.999 to 5A
Resolution	0.1V	0.1V	1mA	1mA
Input Impedance	Volts	3MΩ		
	Amps	14mΩ		
Accuracy (@ 23ºC ±5ºC)	DC, 600V AC, 5A AC	±(0.2% of reading +3 digits)		
	100V AC, 1A AC	±(0.4% of reading +4 digits)		
	Temperature coefficient	100 ppm/ºC		
	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)		
	DPM1-E-L	21-53VAC 50/60Hz or 10.5-70VDC (Recommended fusing, 0.5A/250V, DIN 41661)		
Power Consumption	1.8W			
Conversion	Technique	Sigma-Delta		
	Resolution	±15 bits		
	Conversion rate	20 times per second		
Display	Range	-1999 to 9999 DC, 0 to 9999 AC, selectable decimal point position		
	Type	4 digit 10mm (0.4"), red		
	Display refresh rate	4 times per second		
	Display/input overrange indication	ԾuE		
Environmental Conditions	Operating temperature	-10ºC to +60ºC (14ºF to 140ºF)		
	Storage temperature	-25ºC to +85ºC (-13ºF to 185ºF)		
	Relative humidity (non-condensing)	<95% @ 40ºC (104ºF)		
	Maximum altitude	2000m		
	Frontal protection degree	IP65		
Environmental Air	No corrosive gases permitted			
Agency Approvals	CE			

prosense® Digital Panel Meters - DPM1-E Series 1/32 DIN

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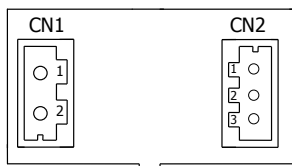
CN1			
AC Supply		**DC Supply**	
1	Neutral	1	-VDC
2	Line	2	+VDC

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

CN1 and CN2 Terminals

Programming Keys (Bottom View)
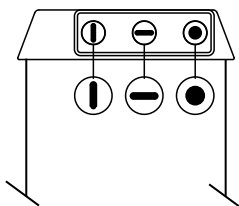
ENTER: Enters configuration and validates data and parameters.

SHIFT: Selects mode or shifts blinking digit in configuration.

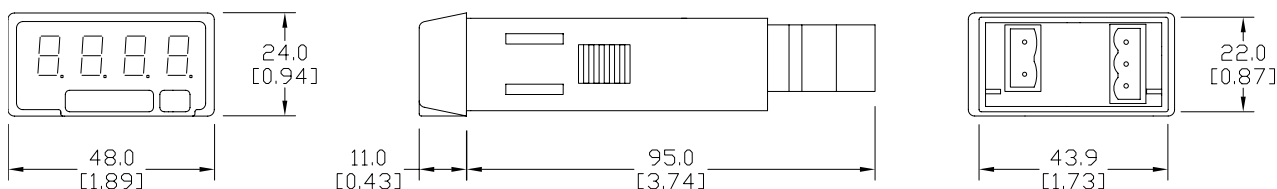**UP:** Increases value of blinking digit in configuration.
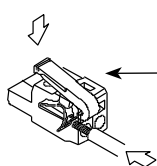
Insertion Tool (included with meter)
Insert wires into the proper terminal while using the insertion tool to open the clip inside the connector. Release the insertion tool to fix wire to the terminal.

Dimensions

mm [inches]

24.0 [0.94]

48.0 [1.89]

11.0 [0.43]

95.0 [3.74]

22.0 [0.87]

43.9 [1.73]

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

prosense® 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 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	$104.00
DPM1-A-H			±20mA, ±100mV ±10V, ±20V ±200V		85-265 VAC, 50/60 Hz 100-300 VDC	$119.00
DPM1-A-L					21-53 VAC, 50/60 Hz 10.5-70 VDC	$119.00
DPM1-T-H		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	$119.00
DPM1-T-L					21-53 VAC, 50/60 Hz 10.5-70 VDC	$119.00
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	$132.00
DPM1-A-2R-L					21-53VAC 50/60 Hz 10.5-70VDC	$132.00
DPM1-A-A2R-H				2 Relays Form A SPST Normally Open 4-20mA	85-265 VAC, 50/60 Hz 100-300 VDC	$145.00
DPM1-A-A2R-L					21-53 VAC, 50/60 Hz 13.5-70 VDC	$145.00
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	$139.00
DPM2L-AT-HL						$149.00
DPM2-AT-2R-HL				2 Relays Form C SPDT		$152.00
DPM2L-AT-2R-HL						$164.00
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	$173.00
DPM3-AT-2R-H				2 Relays Form C SPDT		$195.00
DPM3-AT-4R-H				4 Relays Form A Normally Open with shared common		$210.00
DPM3-AT-A-H				4-20mA		$195.00
DPM3-AT-A2R-H				2 Relays Form C SPDT 4-20mA		$217.00
DPM3-AT-L				None	22-53 VAC, 50/60 Hz 10.5-70 VDC	$173.00
DPM3-AT-2R-L				2 Relays Form C SPDT		$195.00
DPM3-AT-4R-L				4 Relays Form A Normally Open with shared common		$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

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	$119.00
DPM1-E-L					21-53 VAC, 50/60Hz 10.5-70 VDC	$119.00
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	$139.00
DPM2-E-2R-HL				2 Relays Form C SPDT		$152.00
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	$202.00
DPM3-E-A2R-H				2 Relays Form C SPDT 4-20mA		$239.00
DPM3-E-L				None	22-53 VAC 10.5-70 VDC	$202.00
DPM3-E-A2R-L				2 Relays Form C SPDT 4-20mA		$239.00

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) 9999Hz (frequency meter mode)	None	85-265 VAC 100-300 VDC	$119.00
DPM1-P-L					1-53 VAC 10.5-70 VDC	$119.00
DPM1-P-A2R-H		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	$145.00
DPM1-P-A2R-L					21-53 VAC 13.5-70 VDC	$145.00
DPM2-P-HL	1/8 DIN	14mm, Red LED, 0 to 9999, 0 to 999999 Totalizer Selectable decimal point	7.5 kHz (counter mode) 25kHz (tachometer rpm or rate modes)	None	20-265 VAC 11-265 VDC	$139.00
DPM2-P-2R-HL				2 Relays Form C SPDT 4-20mA		$152.00
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	$173.00
DPM3-P-A2R-H				2 Relays Form C SPDT 4-20mA		$217.00
DPM3-P-L				None	22-53 VAC 10.5-70 VDC	$173.00
DPM3-P-A2R-L				2 Relays Form C SPDT 4-20mA		$217.00