## **Dr**Sense 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 (±10V, ±20mA, ±100mV)
- DC Voltage input (±200V, ±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

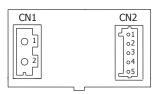


DPM1 Series Panel Meters						
Model	Description	Weight (lbs)	Price			
<u>DPM1-A-H</u>	ProSense digital panel meter, 1/32 DIN, 10mm 4-digit red LED, input current signal range(s) of +/- 20 mA, input voltage signal range(s) of +/- 200 VDC, +/- 20 VDC, +/- 10 VDC, +/- 100 mVDC, 85 to 265 VAC / 100 to 300 VDC operating voltage.	0.2	\$119.00			
<u>DPM1-A-L</u>	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	\$119.00			

	Technica	I Specification	ons				
Input		Voltage Current					
Range	±200V (fixed)	±20V (fixed) ±10V ±100mV ±20r					
Resolution	0.1V	0.01V	1mV	0.1mV	0.01mA		
	Volts	1ΜΩ					
Input Impedance	mV	100ΜΩ					
	mA	20Ω					
	Maximum error		±(0.1% of rea	ding ÷3 digits)			
Accuracy (@ 23°C ±5°C)	Temperature coefficient		100 p	pm/°C			
(@ 20 0 =0 0)	Warm-Up time			nutes			
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)			ature or DIN 41661		
rower suppry and ruses	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					
	Technique	Sigma-Delta					
Conversion	Resolution	±15 bits					
	Conversion rate	20 times per second					
	Range	-1999 to 9999, selectable decimal point position			ion		
Display	Туре	4-digit 10mm (0.4"), red					
ыыртау	Display refresh rate		4 times p	er second			
	Display/input overrange indication		٥	ıΕ			
	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				

# **Dr**Sense Digital Panel Meters - DPM1 Series 1/32 DIN

#### Wiring

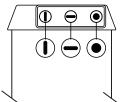


	CN1						
	AC DC						
8	Supply	S	upply				
1	Neutral	1	-VDC				
2	Line	2	+VDC				

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

	Terminals	
Connector	CN1	CN2
Wire cross section	0.08 to 2.5mm² (28 to 12 AWG)	0.08 to 0.5mm² (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)

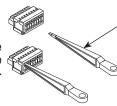


- ENTER: Enters configuration and validates data and parameters.
- SHIFT: Selects mode or shifts blinking digit in configuration.
- **UP:** Increases value of blinking digit in configuration.

#### **CN1 Terminals**



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

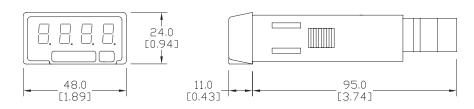


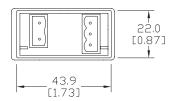
**CN2 Terminals** 

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]





	nstallation
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 <u>DPM1-A-H</u> and <u>DPM1-A-L</u> Series Quick Start Guide

### **Dr**Sense 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	<b>Meters Process</b>	<b>Input Sele</b> 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
<u>DPM1-A-L</u>					21-53 VAC, 50/60 Hz 10.5-70 VDC	\$119.00
<u>DPM1-T-H</u>		10 Dad IED 1000 to 0000	RTD Pt100 (3-wire)		85-265 VAC, 50/60 Hz 100-300 VDC	\$119.00
DPM1-T-L	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
<u>DPM1-A-2R-L</u>		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	±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		BB110 11 B 11 BB 2000 1	±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	-AT-2R-HL	DPM2L: 20mm, Red LED, -1999 to 9999	9 RTD Pt100 (3-wire)	2 Relays Form C SPDT	11-265 VDC	\$152.00
DPM2L-AT-2R-HL		Selectable decimal point				\$164.00
DPM3-AT-H				None		\$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	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	I/O 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

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

## **Dr**Sense 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 5111	10mm, Red LED, -1999 to 9999	100 / 600 VAC or VDC	None	85-265 VAC, 50/60 Hz 100-300 VDC	\$119.00		
<u>DPM1-E-L</u>	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 /	None	20-265 VAC, 50/60 Hz 11-265 VDC	\$139.00		
DPM2-E-2R-HL		1411111, Red LED, -9999 (0 9999	shunt 100mV AC or DC	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 (frequencý 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 (frequencý mode) 100Hz (duty/PWM mode)	Normally Open 4-20mA	21-53 VAC 13.5-70 VDC	\$145.00		
<u>DPM2-P-HL</u>		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 4-20mA	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