## Orsense Digital Panel Meters - DPM1 Series 1/32 DIN

This model in the ProSense DPM1 series offers a simple, low cost digital display of an analog 4-20mA signal. 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 the mA

loop and requires no external 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 (4-20mA DC)
- · Loop powered
- Display scaling or process teaching modes
- Configuration for direct or reverse acting linear processes
- Total configuration lock out
- 3 year warranty



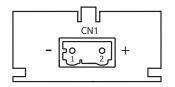
DPM1 Series Panel Meters					
Model	Description	Weight (lbs)	Price		
	ProSense digital panel meter, 1/32 DIN, 10mm 4-digit red LED, input current signal range(s) of 4 - 20 mA, loop powered.	0.2	\$104.00		

Technical Specifications						
	Current Range	4-20mA				
Input	Current Resolution	±0.01mA				
	Impedance	10Ω				
	Maximum error	±(0.1% of reading ÷3 digits)				
Accuracy (@ 23°C ±5°C)	Temperature coefficient	100 ppm/°C				
(@ 20 0 20 0)	Warm-Up time	5 minutes				
Power Supply		Loop powered				
Voltage Drop on Input Loop	4-20 mA	<5V				
	Technique	Single slope				
Conversion	Resolution	16 bits				
	Conversion rate	62 times per second				
	Range	-1999 to 9999, selectable decimal point position				
	Туре	4-digit 10mm (0.4"), red*				
Display	Display refresh rate	2 times per second				
	Display/input overrange indication	O⊔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	www.mt.and.will.mat.ha.aa.hvimht.aa.tha.mau.uu	CE				

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

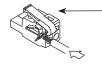
# **Dr**Sense Digital Panel Meters - DPM1 Series 1/32 DIN

#### Wiring





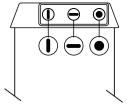
#### **Connection Terminal**



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.

Terminal					
Connector	CN1				
Wire cross section	0.08 to 2.5mm² (28 to 12 AWG)				
Strip length	8 to 9mm				
Manufacturer	Wago 231-302/026-000				
Cage clamp connection	Insertion tool or screwdriver with 0.5 mm x 3.0 mm blade				

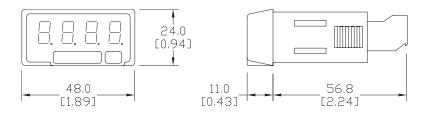
### Programming Keys (Bottom View)

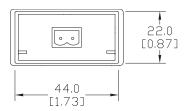


- ENTER: Enters configuration and validates data and parameters.
- SHIFT: Selects mode or shifts blinking digit in configuration.
- **UP:** Increases value of blinking digit in configuration.

#### **Dimensions**

mm [inches]





Installation						
Dimensions	48 x 24 x 56.8mm (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-LP</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		10mm, Red LED*, -1999 to 9999 Selectable decimal point	4-20mA ±20mA, ±100mV ±10V, ±20V ±200V	None	Loop Powered	\$104.00
<u>DPM1-A-H</u>	-				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>		40 5 11 55 4000 4 0000	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	1/32 DIN	10mm, Red LED, -1999 to 9999			21-53 VAC, 50/60 Hz 10.5-70 VDC	\$119.00
<u>DPM1-A-2R-H</u>				2 Relays Form A SPST Normally Open	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		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 44 B 11 EB 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 11-265 VDC	\$149.00
DPM2-AT-2R-HL		DPM2L: 20mm, Red LED, -1999 to 9999	DPM2L: 20mm, Red LED, -1999 to 9999 Selectable decimal point Selectable decimal point TC Type J, K, T or N	2 Relays		\$152.00
DPM2L-AT-2R-HL		Selectable decimal point		Form C SPDT		\$164.00
DPM3-AT-H				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	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	1	\$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 5/14	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	1A / 5A AC or DC		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 /	None	20-265 VAC, 50/60 Hz	\$139.00	
DPM2-E-2R-HL		1411111, Red LED, -9999 (0 9999	shunt 100mV AC or DC	2 Relays Form C SPDT	11-265 VDC	\$152.00	
<u>DPM3-E-H</u>				None		\$202.00	
<u>DPM3-E-A2R-H</u>		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		None	22-53 VAC 10.5-70 VDC	\$202.00	
<u>DPM3-E-A2R-L</u>				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
<u>DPM1-P-H</u>		10mm, Red LED, 0 to 9999		None	85-265 VAC 100-300 VDC	\$119.00
<u>DPM1-P-L</u>		Selectable decimal point			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>		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