DrSense 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

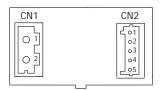


DPM1 Series Panel Meters						
Model	Description	Weight (lbs)	Price			
DPM1-A-H	ProSense digital panel meter, 1/32 DIN, 10mm 4-digit red LED, input current signal range(s) of +/-20 mA, input voltage signal range(s) of +/-200 VDC, +/-20 VDC, +/-10 VDC, +/-100 mVDC, 85 to 265 VAC / 100 to 300 VDC operating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

	Technic	al Specifications	;			
Input		Voltage			Current	
Range	±200V (fixed)	±20V (fixed)	±10V	±100mV	±20mA	
Resolution	0.1V	0.01V	1mV	0.1mV	0.01mA	
	Volts	1ΜΩ				
Input Impedance	mV	100ΜΩ				
	mA		20	Ω		
_	Maximum error		±(0.1% of read	ding ÷3 digits)		
Accuracy (@ 23°C ±5°C)	Temperature coefficient		100 p	pm/°C		
(@ 20 0 ±0 0)	Warm-Up time		5 mii	nutes		
Power Supply and Fuses	DPM1-A-H	(Recommended fusir	85-265VAC 50/60l ng, 0.1A/250V, 5mm x 20		IN 41661 equivalent)	
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	i-Delta		
Conversion	Resolution	±15 bits				
	Conversion rate	20 times per second				
	Range		-1999 to 9999, selectab	le decimal point position		
Diantou	Туре	4-digit 10mm (0.4"), red				
Display	Display refresh rate		4 times p	er second		
	Display/input overrange indication		۵۱	ιE		
	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		IP	65		
Environmental Air		No corrosi	ve gases permitted			
Agency Approvals			CE			

DrSense Digital Panel Meters - DPM1 Series 1/32 DIN

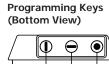
Wiring



CN1					
A	C Supply	DO	Supply		
1	Neutral	1	-VDC		
2	Line	2	+VDC		

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

	Terminals	
Connector	CN1	CN2
Wire cross section	0.08 to 2.5mm ² (28 to 12 AWG)	0.08 to 0.5mm ² (28 to 20 AWG)
Strip length	8 to 9mm	5 to 6mm
Manufacturer	Wago 231-202/026-000	Wago 733-105
Cage clamp con- nection	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



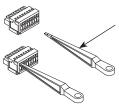
- ENTER: Enters configuration and validates data and parameters.
- SHIFT: Selects mode or shifts blinking digit in configuration.
- **UP:** Increases value of blinking digit in configuration.

CN1 Terminals



Insertion Tool (included with meter)

Insert wires into the proper terminal while using the insertion tool to open the clip inside the connector. Release the insertion tool to fix wire to the terminal.



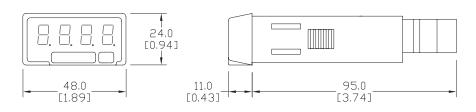
CN2 Terminals

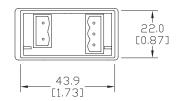
Insertion Tool (included with meter)

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]





	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 for complete Engineering drawings.

Insert



Scan or click the above QR code to be taken to the DPM1-A-H and DPM1-A-L 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:///VID-PS-0007 for a short video on Digital Panel Meters

		DPM Series Digital Panel Mete	ers Process Input Selec	ction Guide		
Model	Size	Display	Inputs	Outputs	Power	Price
DPM1-A-LP			4-20mA		Loop Powered	
DPM1-A-H		10mm, Red LED*, -1999 to 9999 Selectable decimal point	±20mA, ±100mV		85-265 VAC, 50/60 Hz 100-300 VDC	
DPM1-A-L		Selectable decimal point	±10V, ±20V ±200V	None	21-53 VAC, 50/60 Hz 10.5-70 VDC	
DPM1-T-H		10mm, Red LED, -1999 to 9999	RTD Pt100 (3-wire)		85-265 VAC, 50/60 Hz 100-300 VDC	
DPM1-T-L	1/32 DIN	7011111, 1100 EED, 11000 to 00000	TC Type J, K, T or N		21-53 VAC, 50/60 Hz 10.5-70 VDC	
DPM1-A-2R-H				2 Relays Form A SPST Normally	85-265 VAC, 50/60 Hz 100-300 VDC	
DPM1-A-2R-L		8mm, Red LED, -1999 to 9999	±20mA, ±100mV	Open	21-53VAC 50/60 Hz 10.5-70VDC	
DPM1-A-A2R-H		Selectable decimal point	±10V, ±60V	2 Relays Form A SPST Normally	85-265 VAC, 50/60 Hz 100-300 VDC	
DPM1-A-A2R-L				Open 4-20mA	21-53 VAC, 50/60 Hz 10.5-70 VDC	
DPM2-AT-HL			±20mA, ±10V ±200V, 100-100k 0hm	None		
DPM2L-AT-HL		DPM2: 14mm, Red LED, -9999 to 9999	potentiometer,		20 265 VAC 50/60 Hz	
DPM2-AT-2R-HL	Selectable decimal point RTD Pt100 (3-wire)	2 Relays	20-265 VAC, 50/60 Hz 11-265 VDC			
DPM2L-AT-2R-HL		Constable Countries point	RTD Pt1000 (4-wire)	Form C SPDT		
DPM3-AT-H	1		None			
DPM3-AT-2R-H				2 Relays Form C SPDT		
DPM3-AT-4R-H				4 Relays Form A Normally Open with shared common	85-265 VAC, 50/60Hz 100-300 VDC	
DPM3-AT-A-H	1/8 DIN			4-20mA		
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		
DPM3-AT-L		-19999 to 39999 Selectable decimal point	Load Cell ±15mV, ±30mV, ±150mV	None		
DPM3-AT-2R-L			Potentiometer	2 Relays Form C SPDT		
DPM3-AT-4R-L				4 Relays Form A Normally Open with shared common	22-53 VAC, 50/60 Hz 10.5-70 VDC	
DPM3-AT-A-L]			4-20mA		
DPM3-AT-A2R-L				2 Relays Form C SPDT 4-20mA		

^{*} 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	1/22 DIM	10mm, Red LED, -1999 to 9999	100 / 600 VAC or VDC	Nana	85-265 VAC, 50/60 Hz 100-300 VDC			
DPM1-E-L	1/32 DIN	Selectable decimal point	1A / 5A AC or DC	None	21-53 VAC, 50/60Hz 10.5-70 VDC			
DPM2-E-HL		14mm, Red LED, -9999 to 9999	600 / 200 / 20 VAC or VDC	None	20-265 VAC, 50/60 Hz			
DPM2-E-2R-HL		1411111, Neu LED, -9999 (U 9999	1A / 5A / shunt 60mV / shunt 100mV AC or DC	2 Relays Form C SPDT	11-265 VDC			
DPM3-E-H				None				
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			
DPM3-E-L		-19999 to 19999 Selectable decimal point	1A / 5A / shunt 50mV / shunt 60mV / shunt 100mV AC True RMS or DC	None				
DPM3-E-A2R-L			100 11110 01 20	2 Relays Form C SPDT 4-20mA	22-53 VAC 10.5-70 VDC			

	DPM Series Digital Panel Meters Pulse, Frequency Input Selection Guide							
Model	Size	Display	Inputs	Outputs	Power	Price		
DPM1-P-H		10mm, Red LED, 0 to 9999	7kHz (tachometer rpm or rate modes)	None	85-265 VAC 100-300 VDC			
DPM1-P-L	1/32 DIN	Selectable decimal point	9999Hz (frequency meter mode)	None	1-53 VAC 10.5-70 VDC			
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			
DPM1-P-A2R-L		Selectable decimal point	9999Hz (frequency mode) 100Hz (duty/PWM mode)	Open 4-20mA	21-53 VAC 10.5-70 VDC			
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			
DPM2-P-2R-HL		Selectable decimal point	25kHz (tachometer rpm or rate modes)	2 Relays Form C SPDT 4-20mA	11-265 VDC			
DPM3-P-H	- 1/8 DIN			None	85-265 VAC			
DPM3-P-A2R-H	I/O DIN	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			
DPM3-P-L		Programmable decimal point	9.9 kHz (with totalizer)	None	22-53 VAC			
DPM3-P-A2R-L				2 Relays Form C SPDT 4-20mA	10.5-70 VDC			