# **DEPOS DIGITAL PANEL METER**DPM1 Series

Instructions

**VAUTOMATION DIRECT** 

3505 HUTCHINSON ROAD CUMMING, GA 30040-5860

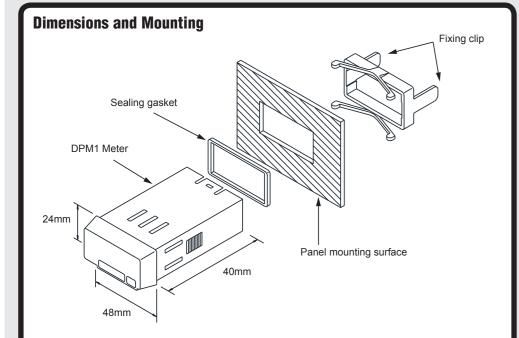
# Models: DPM1-A-LP



# Features

- 48 x 24mm 1/32 DIN
- 4 digit (-1999 to 9999) red LED display
- Selectable decimal point
- Process (4-20mA DC)

- Loop powered
- Display scaling or process teaching modes
- Configuration for direct or reverse acting linear processes
- Total configuration lock out



To install the instrument, prepare a 45mm x 22mm panel cut-out and slide the unit inwards making sure to place the sealing gasket between the front side panel and the front bezel.

While holding the unit in place, put the fixing clip around case and slide it until it reaches the panel at the rear side.

Press slightly to fasten the clip to the latching slots on the case and get the unit fully assembled and close fitted to achieve a good seal.

To remove the instrument from the panel, pull the rear fixing clip latching tabs outwards until they are disengaged, then slide the fixing clip back over the case.

Installation			
Dimensions	48 x 24 x 40mm (1/32 DIN)		
Panel Cutout	45 x 22mm (Max. panel thickness 7mm)		
Case Material	Polycarbonate UL 94 V-0		

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Instructions: DPM1-A-LP



WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call us at 1-800-633-0405 or 770-844-4200.

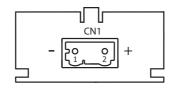
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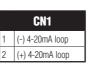


#### WARNING! Electric shock danger

- 1. Keep away from high-voltage and high-frequency environment during the installation to prevent interference. Avoid using the device in environments which contain: (a) dust or corrosive gas; (b) high humidity or high radiation; (c) shock or vibration
- 2. Make sure the input power is switched off when installing or uninstalling the DPM1 to prevent harm to personnel or equipment.
- 3. Before switching on the input power, check the signal connection, e.g. the input voltage and polarity. Voltage that is too high may cause damage to the DPM1.
- Front cover should be cleaned only with a soft cloth soaked in neutral soap product. DO NOT USE SOLVENTS.

#### **Wiring Terminals**





Terminal			
Connector	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		
	<u> </u>		

#### **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

This instrument conforms with the following community directives: EMC 2004/108/CE. Refer to the instructions in this insert to preserve safety protections

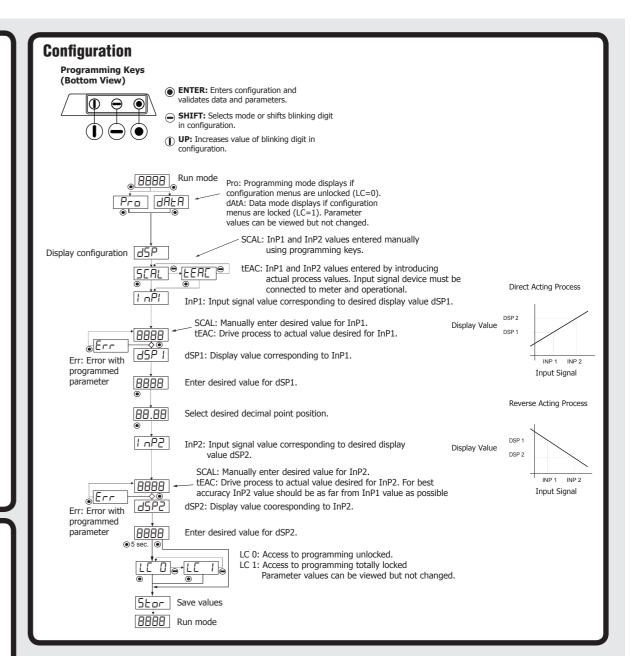
To guarantee electromagnetic compatibility, the following guidelines should followed:

- Use shielded cable for signal wiring.
- Cable cross-section must be  $\geq$  0.25 mm<sup>2</sup>

### **Additional Help and Support**

- For additional technical support and questions, call our Technical Support team @ 1-800-633-0405 or 770-844-4200
- A QR link to configuration and programming videos is located on the back of this document.



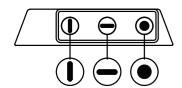


	Tec	hnical Specifications	
Input	Range 4-20mA		
	Resolution	±0.01mA	
	Impedance	10Ω	
Accuracy (@ 23°C ±5°C)	Maximum error	±(0.1% of reading ÷3 digits)	
	Temperature coefficient	100 ppm/°C	
	Warm-Up time	5 minutes	
Power Supply	Loop powered		
Voltage Drop on Input Loop	4-20 mA	<5V	
Conversion	Technique	Single slope	
	Resolution	16 bits	
	Conversion rate	62 times per second	
	Range	-1999 $_{ m to}$ 9999, selectable decimal point position	
	Туре	4 digit 10mm (0.4"), red	
Display	Display refresh rate	2 times per second	
	Display/input overrange indication	D⊔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		

### **Model DPM1-A-LP Example Application:**

4-20mA input, 0.0 to 100.0 display (direct acting process using Scale Mode)

# Programming Keys (Bottom View)

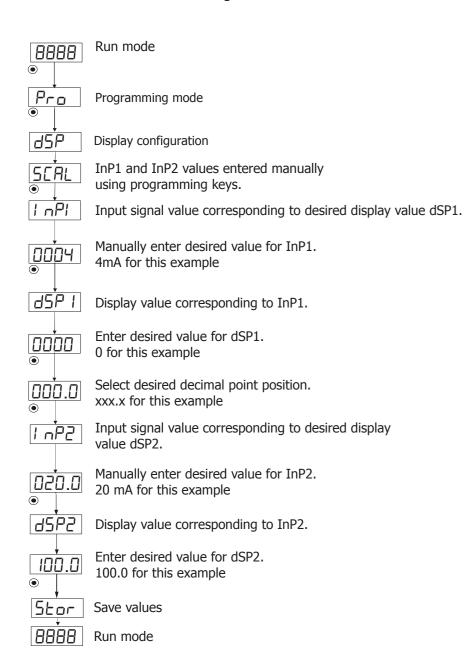


**ENTER:** Enters configuration and validates data and parameters.

SHIFT: Selects mode or shifts blinking digit in configuration.

**UP:** Increases value of blinking digit in configuration.

**Direct Acting Process** 



Display Value	DSP 2 100.0		
	DSP 1 _		
	0.0	INP 1 4.0 mA	INP 2 20.0 mA
	Input Signal		Signal

## Video Link

**Notes** 

Scan or click the QR code for a series of Configuration and Programming videos for the ProSense DMP Series Panel Meters



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