**Digital Panel Meter**

**DPM1 Series**

**Instructions**

**Models:**
- DPM1-A-1P

**Features:**
- Polycarbonate UL 94 V-0
- 0.08 to 2.5mm² (28 to 12 AWG)
-  
- **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) due to corrosive gases; (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. Voltages that is too high may cause damage to the DPM1.
4. Front cover should be cleaned only with a soft cloth soaked in neutral soap product. DO NOT USE SOLVENTS.

**Wiring Terminals**

- Connector: CN1
- Terminal: (+) 4-20mA loop (+) 4-20mA loop
- Insertion Tool (included with meter)

**Connection Terminal**

Insertion Tool (included with meter)

- Insert across the proper terminal while using the insertion tool to open the clip inside the connector. Insert the insertion tool to the outer to the terminal.

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

To guarantee electromagnetic compatibility, the following guidelines should be followed:
- Use a shielded cable for signal wiring.
- Cable cross-section must be 0.25mm².

**Dimensions and Mounting**

- Sealing gasket
- Fixing clip

**Installation**

- 48 x 22mm / 12 DIN
- 4 / 20mA to 5000 red LED display
- Selectable decimal point
- Process (H + 20mA DC)
- Total configuration lock out

**Configuration**

**Display configuration**

- Error: Error with programmed parameter
- SCAL: Manually enter desired value for dSP1
- dSP1: Display value corresponding to InP1
- Enter desired value for dSP1
- dSP2: Display value corresponding to InP2
- Enter desired value for dSP2

**Configuration Programming Keys**

- 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.

**Technical Specifications**

**Input**

- Range: 4-20mA
- Resolution: 0.0001mA

**Accuracy**

- (23°C ±5°C)
- Maximum error: ±0.1% of reading ±3 digits

**Power Supply**

- Voltage drop on input loop: 0.2V
- Loop powered: 0.15V

**Environmental Conditions**

- Storage temperature: -20°C to +60°C (-4°F to 140°F)
- Operating temperature: -20°C to +60°C (-4°F to 140°F)
- Humidity: 95% (40°F)
- IP65

**Agency Approvals**

- CE
Model DPM1-A-LP Example Application:
4-20mA input, 0.0 to 100.0 display (direct acting process using Scale Mode)

<table>
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<tr>
<th>Instructions: DPM1-A-LP</th>
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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.

### Programming Keys

- **Run mode**
- **Programming mode**
- **Display configuration**
  - InP1 and InP2 values entered manually using programming keys.
  - Input signal value corresponding to desired display value dSP1.
  - Manually enter desired value for InP1.
  - 4mA for this example
  - Display value corresponding to InP1.
  - Enter desired value for dSP1.
  - 0 for this example
  - Select desired decimal point position.
    - xxx.x for this example
  - Input signal value corresponding to desired display value dSP2.
  - Manually enter desired value for InP2.
  - 20 mA for this example
  - Display value corresponding to InP2.
  - Enter desired value for dSP2.
    - 100.0 for this example
  - Save values
  - Run mode

### Notes

- **Direct Acting Process**

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<th>Display Value</th>
<th>Input Signal</th>
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<tr>
<td>DSP 1 0.0</td>
<td>INP 1 4.0 mA</td>
</tr>
<tr>
<td>DSP 2 100.0</td>
<td>INP 2 20.0 mA</td>
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### Video Link

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