47NL Series Ultra-slim Digital Panel Meter
Flat Rear Surface Stuck to the Panel with a Magnet!

- 96 x 48 mm
- Large 16 mm-high LED display: Bright and colorful
- Mountable on standard 30 mm round panel cutout
- IP 66 (except for magnet mounting)
- Moving average function to suppress display flickering
- High/low alarm trips
- Short-depth flat type

![Image of 47NL Series Ultra-slim Digital Panel Meter]

<table>
<thead>
<tr>
<th>Red</th>
<th>Orange</th>
<th>Green</th>
<th>Blue</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Red Display" /></td>
<td><img src="image2" alt="Orange Display" /></td>
<td><img src="image3" alt="Green Display" /></td>
<td><img src="image4" alt="Blue Display" /></td>
<td><img src="image5" alt="White Display" /></td>
</tr>
</tbody>
</table>

**TENSION-CLAMP TERMINAL BLOCK TYPE**

**MAGNET MOUNTING**
- Magnet sheet
- Binder
- Wiring direction
- Watertight packing

**SCREW TERMINAL BLOCK TYPE**

**SCREW MOUNTING**
- Screw(s)
- Screw terminal block
- Watertight packing

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M-SYSTEM CO., LTD. — www.m-system.com — info@m-system.co.jp

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47NL Series Ultra-slim Digital Panel Meter

M-System 47NL Series is a 1/8 DIN size (96 x 48 mm), 4 or 4 1/2 digit process meter.

The ultra-slim – only 18.5 mm (.73") thick – meter can be mounted on the panel surface, with no protrusion behind the panel except wires for electrical connection. It supports standard 30 mm circular panel cutout – the same size on which push-buttons and indicator lights are mounted. Typical drills found at production sites can be used to drill the holes into the panel, saving on the cost and time for installation.

Compared to conventional panel meters, the 47NL Series can dramatically reduce installation space in the control panel. Electrical wires connected to the tension-clamp terminals at the rear of the model 47NLx can be directed downward so that its flat rear surface can be stuck to the panel surface even with a magnet. For users preferring barrier strip screw terminal block, the model 47NLxT can be quickly connected with the dedicated wire harness to the separate terminal block at the rear of the panel.

High/low limit alarm outputs are available (except for loop powered types).

### Specifications

<table>
<thead>
<tr>
<th>Input type</th>
<th>Loop powered, indication only</th>
<th>DC voltage/current</th>
<th>2-wire transmitter input</th>
<th>RTD input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No.</td>
<td>47NLN</td>
<td>47NLV</td>
<td>47NLDY</td>
<td>47NLRT</td>
</tr>
<tr>
<td></td>
<td>47NLNT</td>
<td>47NLVT</td>
<td>47NLDYT</td>
<td></td>
</tr>
<tr>
<td>Input</td>
<td>4-20 mA</td>
<td>4-20 mA, 0-20 mA, 0-10 V, 0-5 V, ±10 V, ±5 V</td>
<td>4-20 mA</td>
<td>Pt 100, Pt 50, Pt 1000, JPt 100</td>
</tr>
<tr>
<td>Voltage drop</td>
<td>Approx. 6.3 V with 4 mA</td>
<td>Approx. 6.5 V with 20 mA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display color</td>
<td>Red, Green</td>
<td>Red, Orange, Green, Blue, White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display range</td>
<td>-19999 to 19999 (4 1/2 digits)</td>
<td>-9999 to 9999 (4 digits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decimal point position</td>
<td>10⁻¹, 10⁻², 10⁻³, 10⁻⁴ or none</td>
<td>10⁻¹ or none</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alarm output</td>
<td>---</td>
<td>Photo MOSFET relay 26.4 V DC Ø100 mA (resistive load)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power input</td>
<td>Not required</td>
<td>24 V DC, 0.7 W max.</td>
<td>24 V DC, 2.2 W max.</td>
<td>24 V DC, 0.7 W max.</td>
</tr>
</tbody>
</table>

### External Dimensions

**Front View**

- 47NLx

**Rear View**

- 47NLx
- 47NLxT

**Side View**

- 47NLx
- 47NLxT

Your local representative: [M-SYSTEM CO., LTD. — www.m-system.com — info@m-system.co.jp]

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