**Micro-P Displays—Total Compatibility With UniMeasure Analog Transducers!**

The Micro-P Digital Panel Meters are the perfect complement to UniMeasure analog series linear position transducers. With simple front panel setup, the Micro-P can be programmed to directly display the output voltage or current from the transducer or, with the input of suitable scale factors, can be programmed to display the output in engineering units such as inches, millimeters or rate values.

The Micro-P makes 60 readings per second (50 per second for 50 Hz operation) for fast control response, true peak reading capability, and an analog output that accurately tracks the signal input. The Micro-P has an adaptive digital filter that can automatically select the best time constant for minimum noise, yet responds rapidly to an actual change in signal level. The peak value input signal can be displayed by the push of a button. Auto tare allows the meter display to be set to zero for any input signal level.

The Micro-P provides an isolated 5 VDC, 10 VDC, or 24 VDC output to power the transducer, eliminating the need for an external power supply. There are two alarm indicators with the setpoints programmed by front panel push-buttons. Open collector transistors or dual 10 amp relays may be added to provide control outputs. The outputs can be set to operate above or below the set point in a latched or non-latching mode. Time delays of the outputs are digitally selectable.

0 to 10 V or 0 to 20mA (4–20 mA) analog outputs are available to drive chart recorders, remote displays or for transmission to a central control room. Outputs are scaled through front panel push buttons. Adding RS-232 or RS-485 enables the meter to communicate with PLC’s or computers. Baud rates can be set from 300 to 19,200. Software provided with these options makes meter setup even easier. Three state, parallel BCD outputs are also available.

### SPECIFICATIONS

**DISPLAY**
- Type: 5 Digit, 7-segment, 14.2 mm (.56") high digits and 3 LED indicators
- Color: Red
- Range: -99,999 to +99,999

**A TO D CONVERSION**
- Technique: Concurrent Slope
- Rate: 60/s at 60Hz operation, 50/s at 50Hz operation
- Output Update Rate: 56/s at 60Hz, 47/s at 50Hz
- Display Update Rate: 3.5/s at 60Hz, 3.0/s at 50Hz

**ACCURACY AT 25°C**
- DC Volts, Amps, Ratio: 0.01% FS ±1 Count
- Span Tempco: 0.003% of Reading/°C
- Zero Tempco: 0.1 Counts/°C

**NOISE REJECTION**
- CMV from DC to 60Hz: Safety-rated to 250 VAC
- CMR from DC to 60Hz: 130 dB
- NMR to 50/60Hz Line: 90 dB with minimum filtering

**ENVIRONMENTAL**
- Operating Temperature: 0°C to +55°C
- Storage Temperature: -40°C to +85°C
- Operating Humidity: 95% at 40°C, non-condensing

**EXCITATION POWER SUPPLIES**
- Outputs: 5 VDC, 5%, 100 mA max.
- 10 VDC, 5%, 120 mA max.
- 24 VDC, 5%, 50 mA max.
- Isolation (power ground): Safety-rated to 250 VAC

**OPERATING POWER**
- Voltage (standard): 85 to 264 VAC, 90 to 370 VDC
- Voltage (optional): 8 to 28 VAC, 9 to 37 VDC
- Frequency: DC and 47 to 440Hz

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**MODEL NUMBER CONFIGURATION**

<table>
<thead>
<tr>
<th>DISPLAY</th>
<th>ANALOG OUTPUT</th>
<th>SETPOINT OUTPUT</th>
<th>DIGITAL INTERFACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>H: None</td>
<td>H: None</td>
<td>H: None</td>
</tr>
<tr>
<td>1</td>
<td>J: 0 to 10 VDC</td>
<td>R: Dual 8 A Relay</td>
<td>2. None</td>
</tr>
<tr>
<td>2</td>
<td>K: 0 to 20 (4-20) mA DC</td>
<td>C: Form A 130mA Solid State Relay</td>
<td>4: None</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>5: Parallel BCD</td>
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<tr>
<td>4</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5</td>
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</table>

**Basic Configuration**

MR0-HHH-MVI3

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DIMENSIONAL INFORMATION

MICRO-P Series

PANEL CUTOUT

1.772 +/-0.024mm (45mm +/-0.8mm)

3.622 +/-0.032mm (92mm +/-0.8mm)

FRONT VIEW

1.89mm (48mm)

3.78mm (96mm)

BOTTOM VIEW

4.02mm (102mm)

0.394mm (10mm)

0.197mm (5mm)

All displays use screw terminal connections that plug into the mating printed circuit board jack. Connectors are easy to use and are provided with each display.

Dimensions in brackets are millimeters.