LOOP POWERED LED BARGRAPH (or external Power)  
FOR LOW COST APPLICATIONS  

MODEL  

P50  

FEATURES:  
• Only 5V Burden (250 ohm)  
• 50 single color Segments  
• 1, 3, 5 Pointers or Full Bar  
• Custom Face Plates available  
• Only 2 Wires To Connect  
• Wide Zero and Span Adjust  
• Only 1" Wide  
• Exclusive 2 year Warranty  

SPECIFICATIONS @ 25°C  
• Accuracy & Linearity: 2% of F.S  
• Loop Burden: 5VDC  
• Min-Max. Input: 3.6 - 26mA  
• External Power consumption: 200mW  
• Color: Red Standard  
• Zero and Span Range: ± 30%  
• Operating Temp: 0 + 50°C  
• Storage Temp: -10 + 60°C  
• Humidity: 5-95% non-condensing  

DESCRIPTION  
Another great low cost bargraph display from Precision Instrument Company. Loop powered 4-20mADC or external power, your choice. The 50 segment bargraph display can be jumper configured to fill the bar from bottom to top or as a moving pointer with 1, 3 or 5 bars. When loop powered, the loop drop is 5VDC maximum, if this is too much for your application you can always provide external power such as 24VDC or 120VAC in which case, the loop drop is reduced to only 1VDC at 20mA. Special scale plates for the face are available upon request and the P50 is backed by our exclusive 2 year warranty.  

INPUT SIGNAL  
0.................. ..........4-20mA  
1......................0-100 mVDC  
2...........................0-1VDC  
3............................0-10VDC  

Power input  
0...Loop Powered (4-20mA only)  
1..................Isolated 10-24VDC  
2..................Isolated 100-240VAC  

NOTE:  
1. Externally Powered Signal Input Impedance:  
   Current input: 50 Ohms  
   Voltage input: 10Meg Ohms  
   All inputs are unipolar positive only.  

E-MAIL: sales@PrecisionInstrument.com  
http://www.PrecisionInstrument.com  

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MADE IN USA
**Mechanical and Panel cutout requirements**

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**BARGRAPH MODE SELECT JUMPERS**

<table>
<thead>
<tr>
<th>Display Mode</th>
<th>Jumper Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full</td>
<td>JP1 2 &amp; 3</td>
</tr>
<tr>
<td>1 bar</td>
<td>JP1 1 &amp; 2</td>
</tr>
<tr>
<td>3 bar</td>
<td>JP1 1 &amp; 2</td>
</tr>
<tr>
<td>5 bar</td>
<td>JP1 1 &amp; 2</td>
</tr>
</tbody>
</table>

**NOTES:**
1. **RECOMMENDED PANEL CUTOUT** 0.840 x 5.452
2. **MOUNTING HOLES** #20 FOR #4 CLEARANCE HARDWARE SUPPLIED
3. **WIRE SIZE ACCEPTED** > 24 x 16 GA.
4. **ALL 10-32**
5. **FOR STACKED APPLICATIONS MAKE MOUNTING HOLES ON 0.600" CENTERS.**

**NOTE:** LOOP POWER UNITS HAVE ZERO ADJUST AND NO POWER CONNECTOR.
Ext. POWERED UNITS HAVE POWER CONNECTOR & NO ZERO ADJUST POT.