

NEW

LOOP POWERED LED BARGRAPH (and VDC Powered) FOR LOW COST HIGH RELIABILITY APPLICATIONS

**MODEL
LPB**

FEATURES:

- Only 4.5V Burden
- 50 or 51 Unicolor Segments
- 1, 3, 5 Pointers or Full Bar
- Custom Color/Ranges/Scales
- Only 2 Wires To Connect
- Switchboard Case Also Mounts On 1/4 DIN Cut-Out
- Wide Zero and Span Adjust
- Only 1" On Front Panel (Option 1)
- Only 1" Wide (Option 0)
- Lifetime Warranty

Switchboard
Option 1



Edgewise
Option 0



SPECIFICATIONS @ 25°C

- Accuracy & Linearity: 2% of F.S
- Burden: 4.5VDC (7V for "S")
- Min-Max. Input: 3.6 - 26mA
- VDC Power: 200mW
- Color: Red Standard
- Zero and Span Range: ± 30%
- Operating Temp: -20 + 70°C
- Storage Temp: -30 + 80°C
- Humidity: 5-95% RH, N.C.
- Front Panel: NEMA 4X Rated
- Warranty: Lifetime (LTD)

DESCRIPTION

Another "World's First" joins **OTEK's** long list of Powerless (Patented) Loop Powered Instruments. Beginning in 1974 with its legendary model **521** the World's First Loop Powered Digital Panel meter, **OTEK** offers you 10+ Loop Powered Instruments ranging from simple digital panel meters to sophisticated LCD and LED bargraph-digital instruments with serial communications, automatic tricolor backlight and alarms. All Loop Powered! Just 2 wires to connect! **Burden Too High For Your Loop?** Then order the externally powered versions with only 200mW @ 5VDC and 10 Ohms) burden.

The **LPB-0** has 50 segments, the **LPB-1** has 51 bright high efficiency segments for 2% resolution and can be set for "Pointer" (1, 3 or 5) as well as bargraph operation. The unit's low 4.5V burden in the loop allows for multiple units strung along the factory floor with only 2 wires and **NO** power supply to connect. 4-20mA input is standard, 10-50mA on request. The **LPB-0** uses the same case as our popular **HI-QSLIM** Series.

Zero & Span adjustments are on the rear. Front adjustment on the Switchboard (Option 1) on request.

ORDERING INFORMATION 05-21-07

| | | |
|--|-------------------------------------|--|
| <p>Model: LPB -</p> <p>CASE</p> <p>0 Edgewise</p> <p>1 Switchboard</p> <p>GRADE (1)</p> <p>I Industrial</p> <p>S Intrinsically Safe</p> <p>9 Custom</p> | <p>1</p> <p>2</p> <p>3</p> <p>4</p> | <p>INPUT SIGNAL & POWER (2)</p> <p>0 4-20mA & Loop Powered</p> <p>5 200mV & Non-Isolated 5VDC</p> <p>6 200mV & Isolated 5VDC</p> <p>7 200mV & Isolated 12VDC</p> <p>8 200mV & Isolated 24VDC</p> <p>9 Custom Specify</p> <p>CALIBRATION</p> <p>0 Standard 0-100%</p> <p>9 Custom Specify</p> |
|--|-------------------------------------|--|

NOTES:

1. Intrinsically Safe (I.S.) by design, no certificate available until further notice.
2. VDC Powered Signal Input Impedance: 4-20mA: 50 Ohms, 200mV: 10 Meg. All inputs are unipolar positive only.

Nuclear & Mil-Spec on Request

**IFYOUDON'TSEEIT,
ASKFORIT!**



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OTEK™
CORP.

SINCE 1974

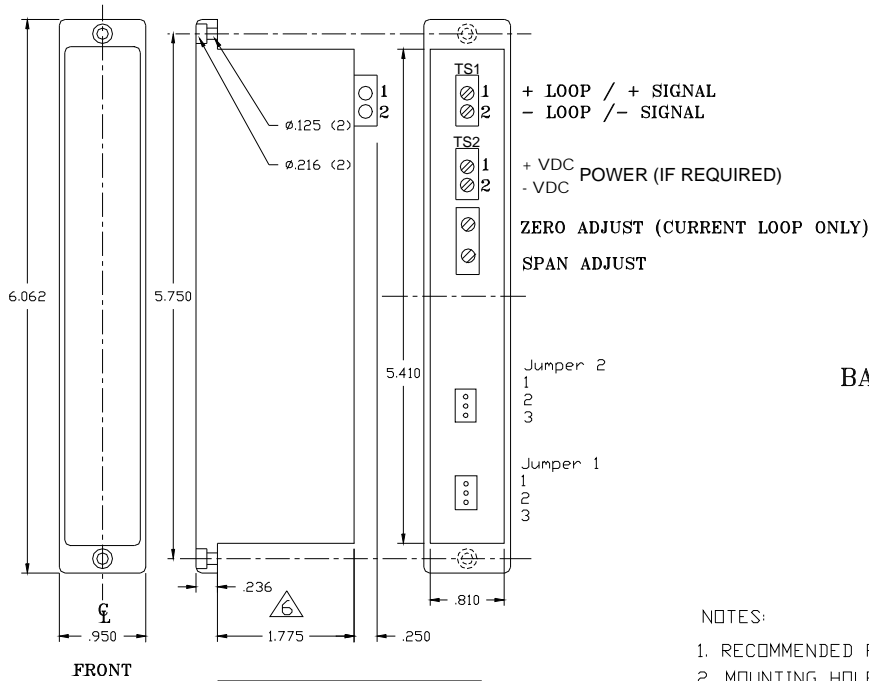
4016 E. TENNESSEE ST.
TUCSON, AZ. 85714 U.S.A.

MADE
IN
USA



MECHANICAL INFORMATION PRELIMINARY

Edgewise (Option 0)



BARGRAPH MODE SELECT JUMPERS

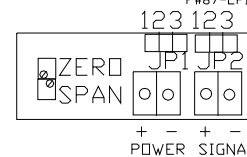
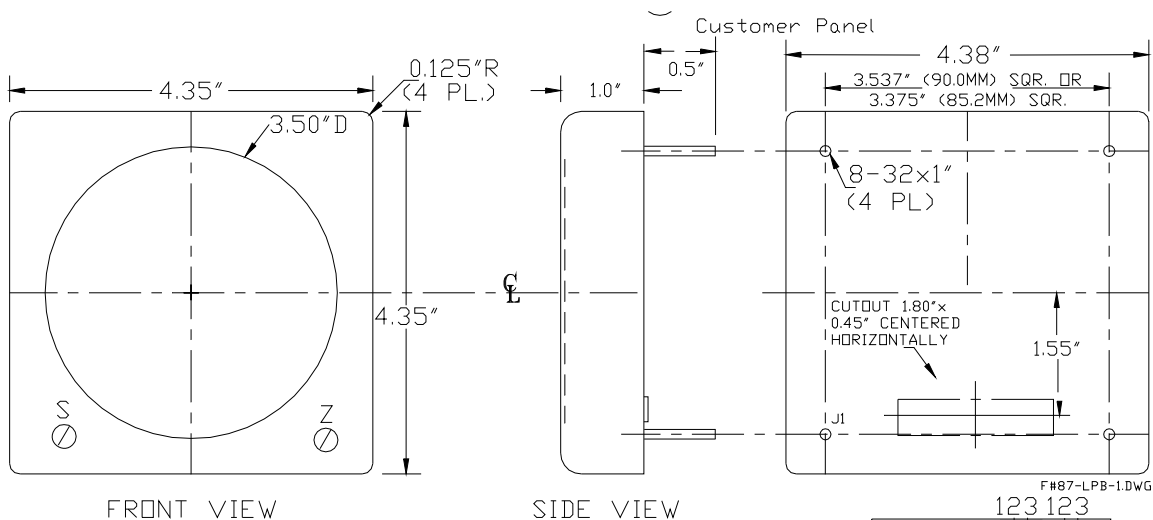
| Display Mode | Jumper JP1 | Jumper JP2 |
|--------------|------------|------------|
| Full | 2&3 | 2&3 |
| 1 bar | 2&3 | 1&2 |
| 3 bar | 1&2 | 2&3 |
| 5 bar | 1&2 | 1&2 |

NOTES:

1. RECOMMENDED PANEL CUTOUT: 0.840 x 5.452
2. MOUNTING HOLES (2) FOR #4 CLEARANCE HARDWARE SUPPLIED
3. WIRE SIZE ACCEPTED > 24 < 16 GA.
4. ALL DIM ± 0.010 "
5. FOR STACKED APPLICATIONS MAKE MOUNTING HOLES ON 0.960" CENTERS.

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

LPB MECHANICAL



NOTE:

1. ANSI 4" (3.375") CASE CAN ALSO BE MOUNTED IN 1/4 DIN PANEL CUTOUT.
2. CONNECTORS AND 3.375" STUDS SPACING MEET ANSI39.1 STANDARD FOR SWITCHBOARD METERS. J1 FALLS WITHIN EXISTING "BARREL" CUTOUT.

FH87-LPB-1.DWG