

NEW

**LOOP POWERED (and External Powered)
LED/LCD MINIATURE DIGITAL PANEL METER
FOR OEMs**

**MODEL
LPL**

FEATURES:

- Loop or VDC Signal Powered
- Panel or P.C. Mount
- 4 1/2 Digits LCD Backlit
- Zero & Span Adj.
- D.P. Peak and Hold
- Replaces OTEK's GL151 & Brighton's with New **ASIC**
- Low Cost
- Intrinsically Safe by Design
- Lifetime Warranty

LCD



LED



OTHER SPECIFICATIONS

- Display: LCD, 4 1/2 Digits 0.5", 6 O'Clock Viewing Angle
- LED: 4 1/2 Digit, 0.25" Red
- Input Type: Differential & Single Ended. 10M For VDC
- Common Mode R.R.: 100dB @ 50/60 Hz
- Conversion Rate: 2 1/2/Second
- Step Response: 0.8 Sec. (0-90% of F.S)
- Common Mode Voltage: ± 2 VDC
- Op./Storage Temp: -10 + 60/ -20 + 70°C
- MTBF: >100,000 Hours
- RH: 5-95% RH Non-Condensing
- Temperature Coefficient: 50PPM/°C

LED



DESCRIPTION

OTEK's **LPL** brings you over 30 years of expertise in Loop Powered Meters (we invented it) and its known reliability backed by OTEK's exclusive **Lifetime Warranty!**

You can mount the **LPL** on a panel, P.C.B. or your own housing. The 12 turn potentiometers for Zero and Span give you smooth and wide range calibration. You can select from current or voltage signal power or 5VDC power, backlight red or green, and mounting (P.C.B. or Panel) There is no other more flexible **Digital Panel Meter** in the market.

APPLICATIONS:

- Loop Monitors
- Power Supplies
- Battery Charges
- Portable Meters

SPECIFICATIONS

Loop Powered Models:

- Burden: 4.5V Max. For LCD or LED models
- Max. Input Current: 36mA, Max. Volts: 30V
- Min. Input Current: 3mA
- Accuracy & Linearity: $\pm 0.01\%$ of F.S. ± 1 Digit
- Span Adjustment: ± 3000 Counts of F.S. (10,000)
- Zero Adjustment: ± 3000 Counts of Zero (00000)
- Standard Calibration: 4-20 = 0-10000, Others On Request

Voltage Signal Powered Models:

- 3-60VDC
- Current Required: 1mA No Backlite, 20mA with Backlite, 30mA with LED
- Over Voltage: 150% 1 Sec

If You don't See It
Ask for It!



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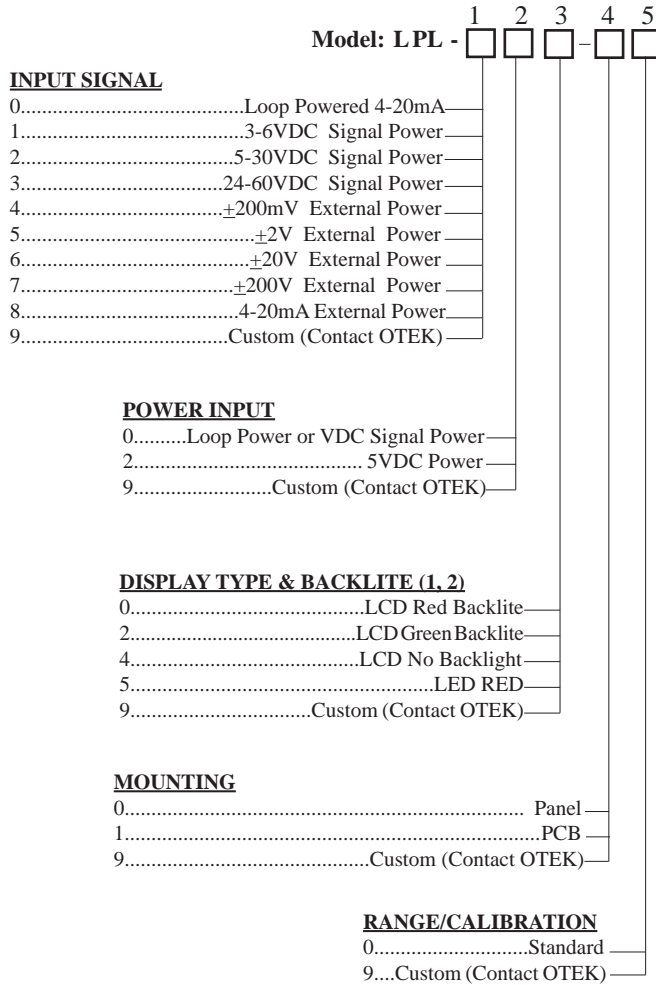
MADE
IN
USA



LPL ORDERING INFORMATION 12-12-11

NOTE: Please READ BEFORE building part number:

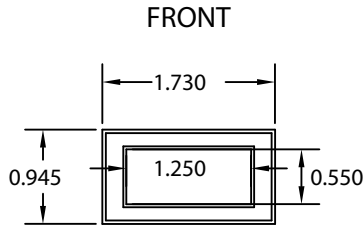
1. If digit 2 is 0, then digit 1 must be 0, 1, 2 or 3.
2. See notes below.



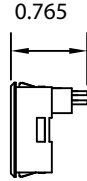
NOTES:

1. LCD: -1.9.9.9.9 to 19.9.9.9; LED: -9.9.9.9 to +9.9.9.9, with overrange LED above MSD and "-" sign below MSD.
2. Options 0 & 2: <20mA; Option 4: <2mA; Option 5: < 30MA.

LCD TYPICAL CONNECTIONS FOR DISPLAY OPTIONS FOR 0,2, & 4 (3RD DIGIT)

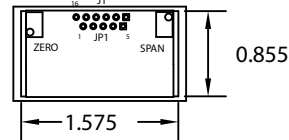


SIDE



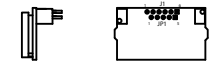
REAR

PANEL CUTOUT: 0.875x1.600



SIDE

REAR



J1

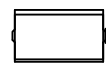
1. PEAK (active high)
2. HOLD (active high)
3. - SIG -EXT. POWER
4. + SIG -EXT. POWER
5. GND/-LOOP POWER/-SIGNAL POWERED
6. +5V/+LOOP POWER/+SIGNAL POWERED

Note: For active high signals, connect to JP1-1 to activate

Decimal Point selector (JP1)

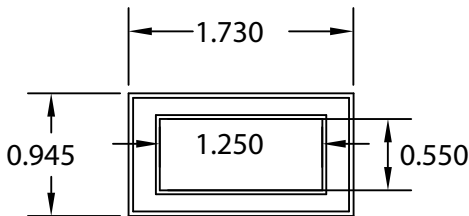
- XXXXX connect JP1-4 to JP1-5
- XXXX.X connect JP1-4 to JP1-1 and connect JP1-2 & JP1-3 to JP1-5
- XXX.XX connect JP1-3 to JP1-5 and connect JP1-4 & JP1-2 to JP1-1
- XX.XXX connect JP1-2 to JP1-5 and connect JP1-4 & JP1-3 to JP1-1
- X.XXXX connect JP1-2 & JP1-3 & JP1-4 to JP1-1

FRONT

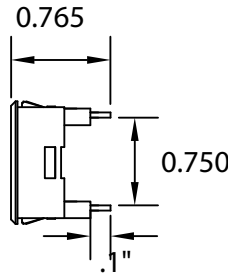


LED TYPICAL CONNECTIONS FOR DISPLAY OPTION 5 (3RD DIGIT)

FRONT

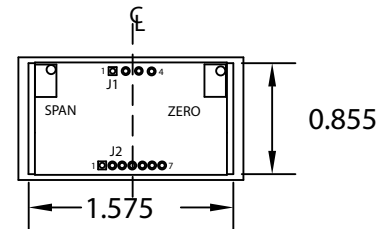


SIDE



REAR

PANEL CUTOUT: 0.875x1.600
PINS C-C: 0.1" (0.02" SQR)



TYPICAL CONNECTIONS

J1

1. +LOOP INPUT/+SIGNAL
2. -LOOP INPUT/-SIGNAL
3. N.C.
4. N.C.

J2 D.P. & PEAK & HOLD

1. AN. GND
2. D.P.1
3. D.P.2
4. AN. GND
5. PEAK CONN. TO #6 FOR PEAK
6. VDOUT
7. HOLD CONN. TO #6 FOR HOLD

Decimal Point selector

- XXXX LEAVE DP1 & DP2 FLOATING
- XXX.X CONNECT DP1 & DP2 TO AN. GND (J2-1, J2-4)
- XX.XX CONNECT DP2 TO AN. GND (J2-4)
- X.XXX CONNECT DP1 TO AN. GND (J2-1)

