



TEL-TRU MANUFACTURING COMPANY

# PTD-1 LOCAL READOUT DISPLAY

**The PTD-1 loop powered display is designed for direct readout in milli-Amps VC, percent of full scale, or engineering units. The display is configurable from -1999 to +1999, and may be used on most instruments with 4 to 20mA output and a DIN 43650 electrical connection.**

➤ *Reliable in harsh environments and high vibration applications*

- High-impact ABS housing
- Fully gasketed
- NEMA 4X
- Surface mount electronics

➤ *Easy field setup*

- *NIST traceable calibration certificate available*  
when display is factory installed on models that use  
DIN 43650 A conn. and 4-20mA electronics



## Specifications

➤ *ELECTRICAL*

Excitation:	12-36 Vdc
Voltage Drop:	2.5 Vdc Max
Zero Balance:	≤ ±1% FSO
FSO Setting:	≤ ±1% FSO
Display:	LED (LCD Available)
Update Rate:	< 100 mS
Insulation Resistance:	1000 MΩ at 50 Vdc
Reverse Polarity:	Protected
EMI/RFI:	Internal Filtering
Short Circuit Protected:	Up to 40 Vdc

➤ *PERFORMANCE*

Accuracy:	≤ ±0.05% FSO (BFSL, RSS)
Repeatability:	≤ ±0.05% FSO
Temperature Effects:	≤ ±0.5% FSO over comp range (combined effects of zero and FSO with reference at 70° F)
Long Term Stability:	≤ ±0.05% FSO per year

➤ *MECHANICAL*

Materials:	High impact ABS plastic neoprene gasket
Mates With:	DIN 43650 electrical connector
Dimensions:	See outline drawing
Weight:	Approximately 3 oz.

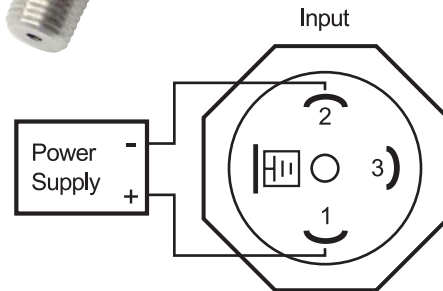
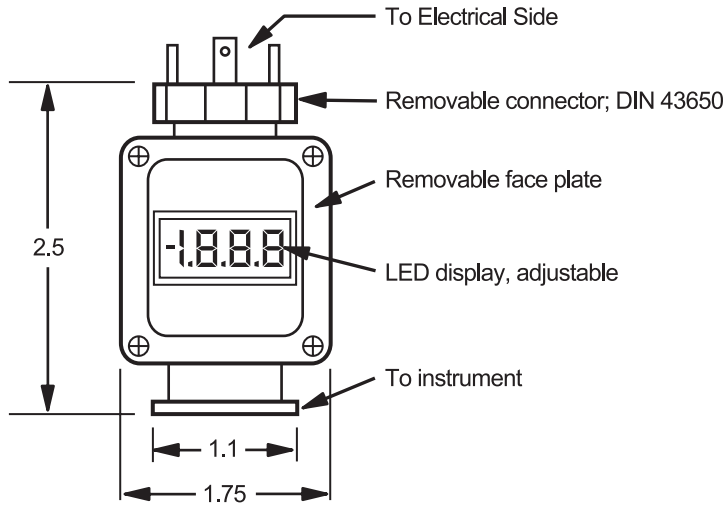
➤ *ENVIRONMENTAL*

Compensated Temp Range:	0 to 170°F
Operating Temp Range:	0 to 200°F
Storage Temp Range:	-20 to 200°F

<i>World-Class Instruments</i>	<i>Since 1916</i>
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# PTD-1 LOCAL READOUT DISPLAY

*NEMA 4X Loop powered, Customer configurable*

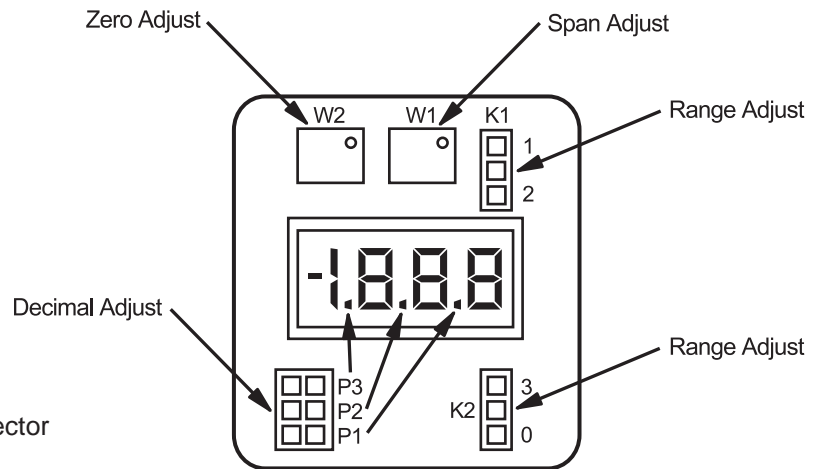


## ▶ INSTALLATION

1. Unscrew Hex nut and remove connector.
2. Install indicator on instrument. Please be certain wiring is + in : Pin 1, return/signal : Pin 2.
3. Tighten mounting screw located in center of indicator. Re-install connector and Hex nut.
4. Install mating DIN connector.

## ▶ CALIBRATION

1. Remove face plate (4 screws).
2. Determine position for switch K1 and K2 and short appropriate pins.
3. Install display on instrument.
4. Apply input voltage to Pin 1 of removable connector (12-36 Vdc).
5. Apply the zero pressure, adjust zero pot to desired zero reading.
6. Apply full scale pressure, adjust span pot to desired span reading.
7. Install face plate.



Range	Display at 20 mA dc	Switch K1	Switch K2	Display at 4 mA dc
I	1300 thru 1000	1	0	
II	500 thru 1300	2	0	-1999 to 0
III	190 thru 500	2	3	



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