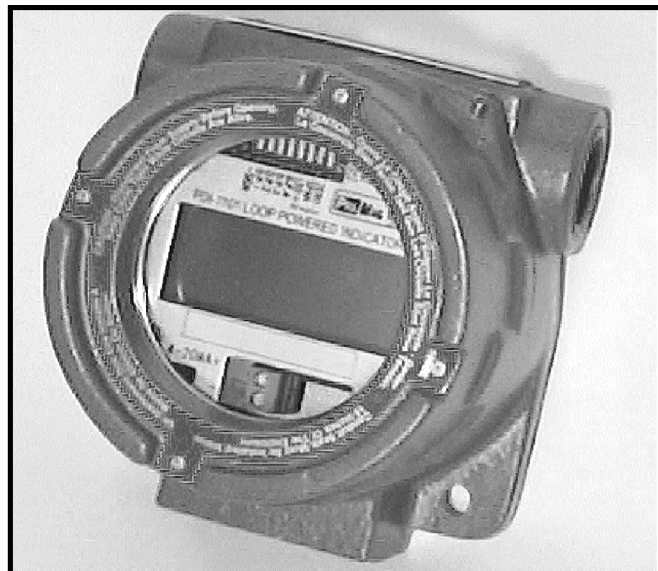




PDI-1101 LOOP POWERED DIGITAL INDICATOR

FEATURES

- * Operating power derived from 4-20 mA current loop
- * 2.5 volt max voltage drop on standard unit
- * Large .6 inch tall 4.5 digit LCD readout
- * Selectable decimal points and polarity sign indicator
- * 2 ranges of ZERO & SPAN adjustment allow calibration in engineering units
- * 3 1/2 active digits plus a selectable "DUMMY 0" least significant digit provide 4 1/2 digits of display
- * Explosion Proof packaging



DESCRIPTION

The PROMAG PDI-1101 Loop Powered Indicators are designed to display 4-20mA variables in their correct engineering units. Each have 3 1/2 active digits plus a "dummy 0" least significant digit which may be DIP switch selected to provide full scale readouts as high as 19990. The 4 decimal points between the digits may also be selected via the front DIP switch. Non-interacting ZERO & SPAN potentiometers, with 2 switch selectable adjustment ranges, allow precise display in any desired engineering unit value.

PDI-1101'S are wired into the current loop with a "plug in" 2 position terminal strip. The plug side of the terminal strip contains a 6.8 volt zener diode which allows the PDI-1101 to be removed without interrupting the loop. Voltage consumption from the loop is 2.5 volts.

DIP SWITCH SETTINGS

1. (-) polarity sign on/off
2. Decimal Point 1 on/off
3. Decimal Point 2 on/off
4. Decimal Point 3 on/off
5. Decimal Point 4 on/off
6. "DU0" LSD on/off
7. ON=Spans >200 counts
OFF=Spans > 900 counts
8. ON=50% of span zero adjust
OFF=25% of span zero adjust

CALIBRATION PROCEDURE

1. Determine the desired reading at ZERO and SPAN.
2. Input 4mA; adjust the ZERO control until the desired reading is displayed.
3. Input 20mA; adjust the SPAN control until the desired reading is displayed.
4. Recheck ZERO and midpoint.

SPECIFICATIONS

SIGNAL INPUT:	4-20mA
VOLTAGE DROP:	2.5VDC max at 20mA
DISPLAY:	.60 inch high, 4.5 digit L.C.D.
PROTECTION:	250mA forward, .5 amp reverse
ACCURACY:	+/- .1% of full scale in one count
TEMPERATURE RANGE:	- 10 to 60 degrees C
TEMPERATURE DRIFT:	ZERO: +/- 1 count/degree C SPAN: +/- .01% of full scale
HOUSING	NEMA 7 explosion proof Class 1, Groups B,C,D Class 2, Groups E,F,G Also meets NEMA4 with included O'ring