



**ADTECH**  
Analog-Digital Technology, Inc.

The Adtech LPI series of loop powered LCD indicators provide user configurable ideal solutions for process indication.

The units accept a process input signal of 4-20 mA DC and provide a 3 1/2 digit, 7 segment 0.5" LCD display.

The 4-20 mA signal may be from a two-wire output loop or an output of three-wire or four-wire transmitters.

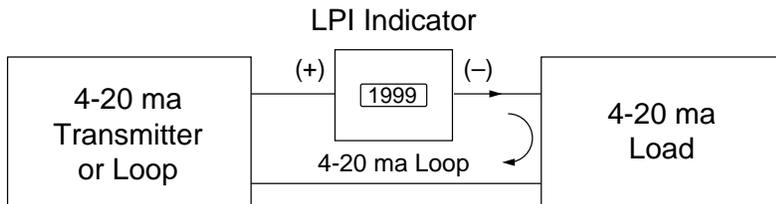
Power is derived from the input signal with no external power source required.

The 3 1/2 digits may display 4-20 MADC (4-19.99) or engineering units such as °C or °F, etc. The output may also be displayed as 0-100% selectable with a simple jumper through 4 decimal points.

Zero and span controls are provided by two separate infinite resolution potentiometers. Jumpers are provided for decimal point position and display range.

Four configurations are offered.

LPI 25	NEMA 4X	HOUSING.
LPI 30	NEMA 7	EXP. HOUSING
LPI 40	NEMA 7	EXP. HOUSING WITH INTEGRAL 100 SERIES 2-WIRE TRANSMITTER.
LPI 40D	NEMA 7	EXP. HOUSING WITH INTEGRAL 200 or 300 SERIES TRANSMITTERS.



### Features

- **DC Current Input:** 4-20 mA
- **Repeatability:** ±1 count
- **Temperature Stability:** ±0.01 5%/°C
- **0.5" LCD - 7 Segment Display**
- **No External Power**

## Loop Powered Indicators

**Model Nos. LPI 25 LPI 30  
LPI 40 LPI 40D**

### Local (Field) Indication of:

- Flow
- Pressure
- Temperature
- Level
- Speed
- AC Signals

### Typical Applications and Available Stick-on Tag

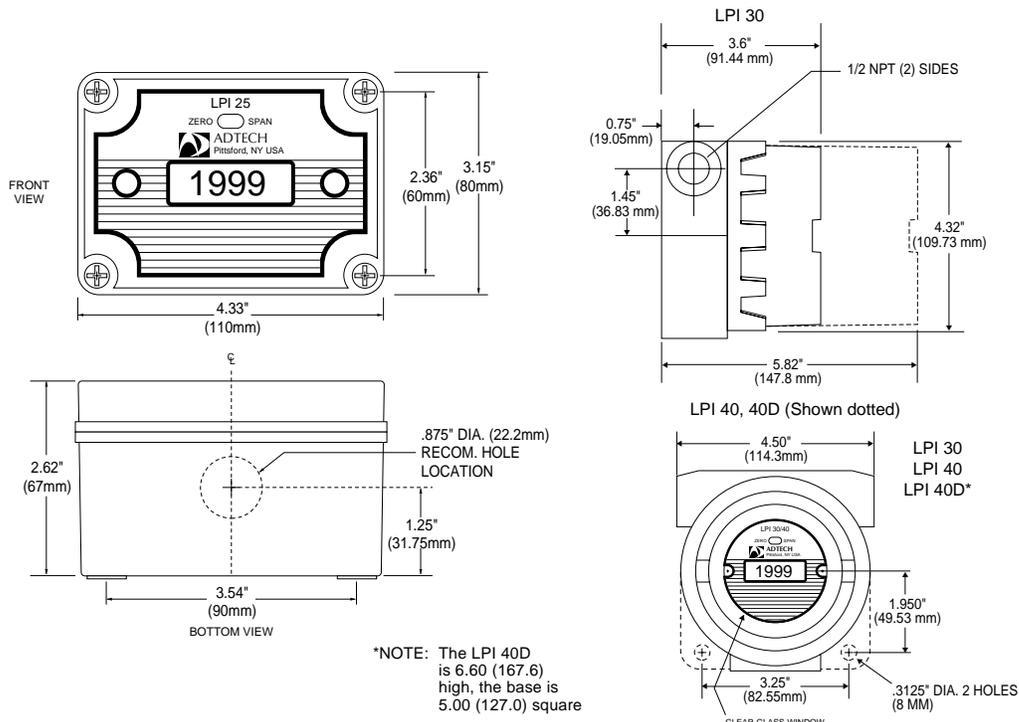
%	°F	°C	RPM	MA
GALS	GPM	GPH	GPD	MGD
LITR	LITR/ S	LITR/ M	LITR/ H	X100
LBS	LBS/ S	LBS/ M	LBS/ H	X 1000
GM	GM/S	GM/M	GM/H	X10
KG	KG/S	KG/M	KG/H	
BTU	BTU/ H	KCAL	KCAL /H	
FT <sup>3</sup>	FT <sup>3</sup> /S	FT <sup>3</sup> /M	FT <sup>3</sup> /H	FT
M <sup>3</sup>	M <sup>3</sup> /S	M <sup>3</sup> /M	M <sup>3</sup> /H	
BAR	BAR/ M	BAR/ H	BAR/ D	



# Connections/Dimensions

- ① (-) 4-20 mA DC
- ② (+) Loop power supply
- ③ (-) For connection to two-wire transmitter
- ④ (+)

NOTE: On the LPI 25 & 30, terminals 3&4 are factory jumpered.



## Input/Output

**Input**  
4-20 MADC, 2.3 VDC Maximum Input Burden  
*Note: Reverse polarity protected and over current protected to 30 MADC.*

**Output**  
LCD Display  
3.5 digits, 7 Segment 0.5"  
(12.7 MM) high

## Performance

**Calibration:**  $\pm 0.1\%$  of reading  $\pm 1$  count.  
**Accuracy:**  $\pm 3$  counts.  
**Repeatability:**  $\pm 1$  count  
**Temperature Stability:**  $\pm 0.015\%/^{\circ}\text{C}$  maximum  
**Ovrange:** 3 least significant digits blank out.  
**Response Time:** 2.5 readings per second  
**Temperature Range:**  $-30^{\circ}$  to  $80^{\circ}\text{C}$  ( $-22^{\circ}$  to  $176^{\circ}\text{F}$ ) operating.  
 $-40^{\circ}$  to  $+85^{\circ}\text{C}$  ( $-40^{\circ}$  to  $185^{\circ}\text{F}$ ) storage.  
**Decimal Point:** 3 position (1/1,000, 1/100, 1/10 and 1); selected by two (2) jumpers.  
**Range Adjustments:** Zero: -2000 to +1750 counts. *Each selectable in eight (8) ranges.*  
 Span: 0 to 4000 counts.

## Power

**None;** Loop powered, 2.3 VDC maximum input burden.

## Mechanical

**Electrical Classification:**  
 LPI 25 NEMA 4X  
 LPI 30 Explosion Proof: Class 1, Group B, C & D  
 LPI 40 Explosion Proof: Class 1, Group B, C & D  
 LPI 40D Explosion Proof: Class 1, Group B, C & D  
**Connections:** Screw compression type, accepts up to 14 AWG wire.  
**Controls:** Multiturn potentiometers for zero and span, jumpers for decimal point, and zero and span ranges.  
**Mounting:** Surface, conduit or pipe mount.  
**Weights:** LPI 25: 0.5 Lbs (0.23 kilogram)  
 LPI 30: 2.0 Lbs (0.91 kilogram)  
 LPI 40: 3.0 Lbs (1.36 kilogram)  
 LPI 40D: 3.0 Lbs (1.36 kilogram)

## Options

Option Number	Description
H 23	Two (2) inch pipe mount kit

### Ordering Information

- Model number
- Calibration
- Housing and miscellaneous options

*Please refer to the Housing and/or Option Section for more specific and detailed information.*

### Represented by:



ADTECH

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