



# ADTECH

95 Mt. Read Blvd # 149  
 Rochester, New York 14611 USA  
 Phone: 1.585.698.1845  
 Fax: 1.585.697.0445

www.adtech-inst.com

## LOOP POWERED INDICATORS MODEL NOS. LPI 25 LPI 30 LPI 40 LPI 40D

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:

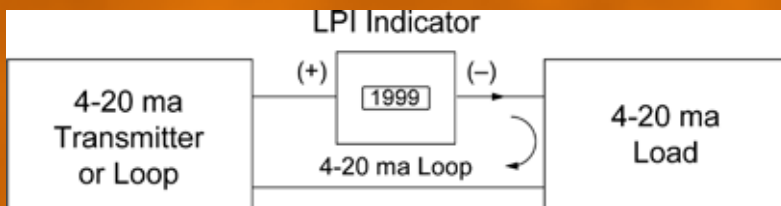
- LPI 25            NEMA 4X HOUSING
- LPI 30            NEMA 7 EXP. HOUSING
- LPI 40            NEMA 7 EXP HOUSING WITH INTEGRAL 100 SERIES 2-WIRE TRANSMITTER
- LPI 40D          NEMA 7 EXP HOUSING WITH INTEGRAL 200 OR 300 SERIES TRANSMITTERS

### 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	



## FEATURES

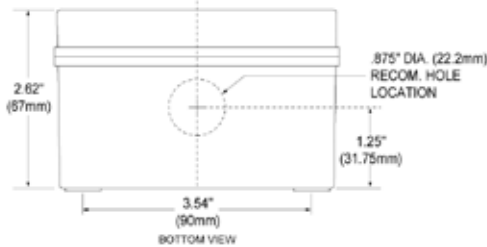
- DC CURRENT INPUT: 4-20 MA
- REPEATABILITY: ±1 COUNT
- TEMPERATURE STABILITY: ±0.01 5% / °C
- 0.5" LCD - 7 SEGMENT DISPLAY
- NO EXTERNAL POWER



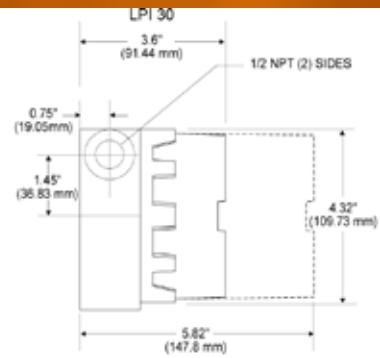
# CONNECTIONS / DIMENSIONS

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

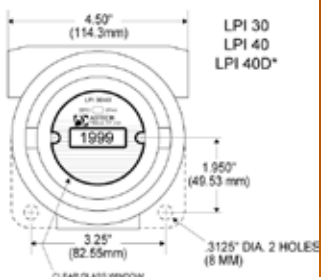
NOTE: On the LPI 25 & 30, terminals 3&4 are factory jumpered.



\*NOTE: The LPI 40D is 6.60 (167.6) high, the base is 5.00 (127.0) square



LPI 40, 40D (Shown dotted)



## 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"  
(12.7MM) HIGH

## PERFORMANCE

CALIBRATION:  $\pm 0.1\%$  OF READING  $\pm 1$  COUNT.  
 ACCURACY:  $\pm 3$  COUNTS  
 REPEATABILITY:  $\pm 1$  COUNT  
 TEMPERATURE STABILITY:  $\pm 0.015\%$  / °C MAXIMUM  
 OVERRANGE: 3 LEAST SIGNIFICANT DIGITS BLANK OUT.  
 RESPONSE TIME: 2.5 READINGS PER SECOND  
 TEMPERATURE RANGE: -30° TO 80°C (-22° TO 176°F) OPERATING.  
 -40° TO +85°C (-40° TO 185°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.*