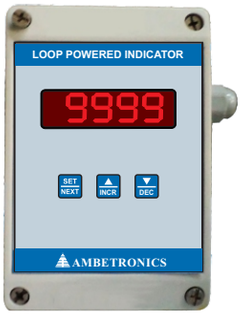
LPI-400-SERIES

Loop Powered Indicator-LED

AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY

PANEL MOUNT

LPI-400-WP



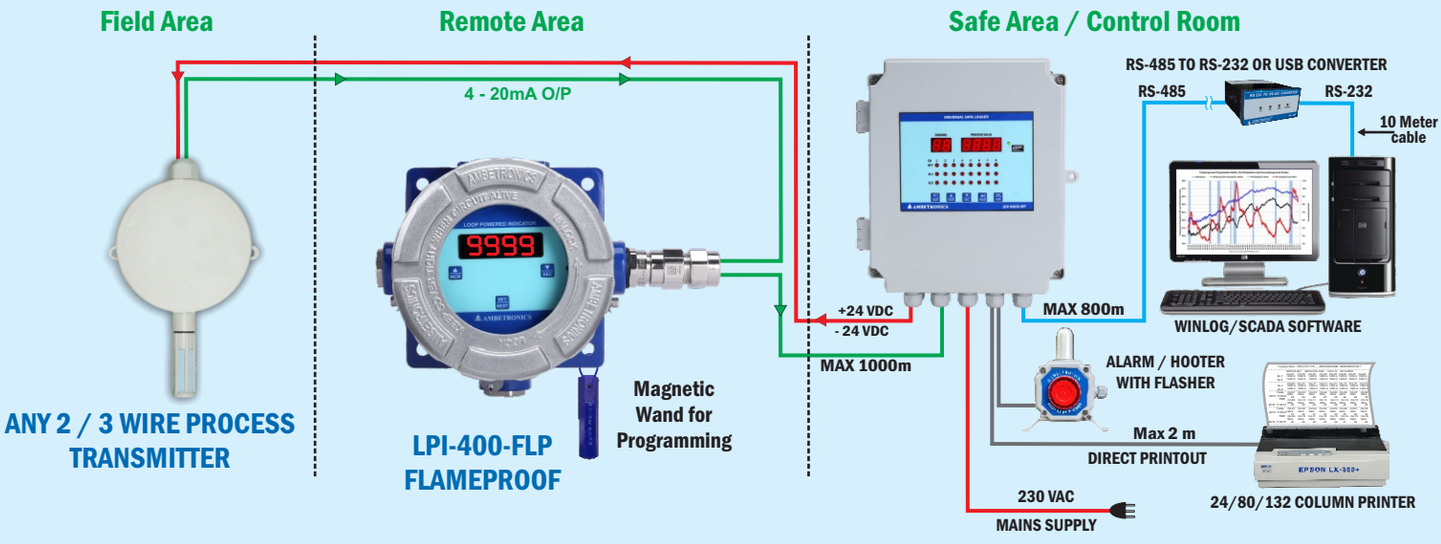
- 4 Digit, 0.39" LED Display
- Range : -1999 to 9999
- Loop Voltage Drop < 4.8 VDC
- IP-65

LPI-400-FLP-PDA

- LED Display
- Exd IIC T6 IP - 66
- CMRI Tested Enclosure

Magnetic Wand for Programming

Illustration



Features

- User Programmable With Password Protection
- Easy Programming With Push Buttons for WP & PM Model
- Non-Instrusive programming for Flameproof model using Magnetic pen.
- Temperature coefficient of accuracy 0.005% FS/°C
- Software Calibration – No Trimpots
- Reverse Polarity Protection
- Loop Voltage Drop < 4.8 VDC
- 4 - 20 mA Loop Current Input from Transmitters
- Accuracy ± 0.1% Of Full Scale Range
- 4/5 Digit LED Display
- Range Locking / Unlocking Facility
- Offset Facility To Compensate Field Error
- Operational Mode Linear / Square Root; Programmable by user
- No external Power Supply is required

Applications

- Provides Process value Indicator in various Industrial Control & Measurement Application such as Pressure, Flow, Level, Temp., Humidity etc.
- Remote Indicator at point of measurement or at control end especially where there is no power source
- Being Non Voltage Producing Device can be directly used in Hazardous Area with Suitable Enclosure
- Replaces an Analog Meter with no additional wiring and power connection
- Can be inserted at any point in signal loop as a stand alone as it requires no external power
- Remote Indication location on tank taps as used in liquid level sensing & control

MUST FOR HUMAN & INDUSTRIAL SAFETY

TECHNICAL SPECIFICATIONS

General :

Input	:	4-20 mA Loop Current Input from any 2 / 3 Wire Process Transmitter
Range	:	LPI - 400 -FLP : (-1999 to 9999)
Resolution	:	0001, 000.1, 00.01, 0.001
Offset	:	Adjustable upto ± 10% of range
Display	:	0.39" 5 Digit Red LED Display
Display Update Rate	:	Linear mode : 1 sec; Square root mode : 1sec
Monitor	:	i) Display shows 'UndEr/Undr ', when I/P current falls below set 'UNDER' value (from 3.6mA to 3mA, settable) ii) Display shows 'ouEr', when I/P current goes above set 'OVER' value (from 20.5mA to 21mA, settable)
Operational Mode	:	Linear & square root; programmable by user
Calibration	:	S/W calibration

Performance :

Accuracy	:	Linear : ± 0.1% of span; Square root : ± 0.2% of span
Temperature coefficeient of accuracy	:	0.005%FS/°C
Warm up Time	:	10 Sec

Electrical :

Loop Voltage Drop	:	< 4.8 V DC

Environmental :

Operating Temperature	:	-10°C to 50°C
Relative Humidity	:	Below 95% non condensing

Panel Mount Housing :

Protection Class	:	IP-40
Cabinet Material	:	ABS Plastic, Black colour
Cable Entry	:	Terminal Connector for Connection
Dimension	:	96 (H) x 96 (W) x 85 (D) -in mm
Mounting	:	Panel Mounting
Weight	:	Approx 250 Grams

Weatherproof Housing :

Protection Class	:	IP- 65
Cabinet Material	:	Polycarbonate, Grey colour
Cable Entry	:	1No., Thermoplastic Cable Gland (IP-68)
Dimension	:	120 (H) x 100 (W) x 60 (D) -in mm
Mounting	:	Wall Mounting / Stand Mounting
Weight	:	Approx 250 Grams

Flameproof Housing :

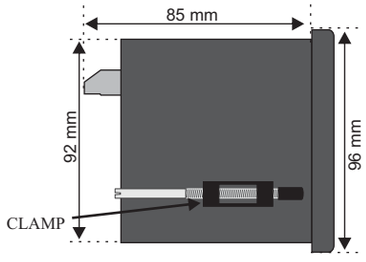
Protection Class	:	Blue Enclosure IP-66
Approval	:	CMRI approved for IIA & IIB Gas Group
Cabinet Material	:	Cast Alluminium alloy, LM-6 / C.I. Enclosure
Cable Entry	:	Flameproof, IP66 Double Compression Cable Gland - M20 x 1.5 (P)
Dimension	:	155mm (H) x 223 mm (W) with stopper plug & cable gland x 125 mm (D)
Mounting	:	Wall Mounting / Stand Mounting
Weight	:	Approx 1 Kg

DIMENSIONS

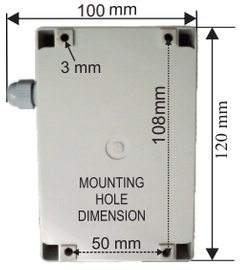
Panel Mount (PM) Front View

Weatherproof (WP) Front View

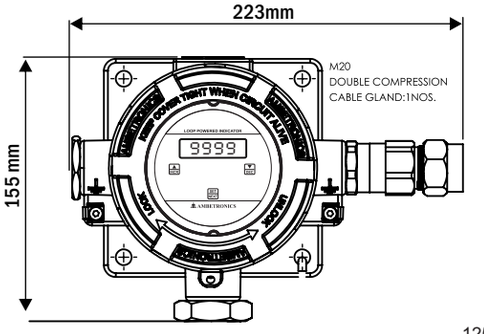
Side View



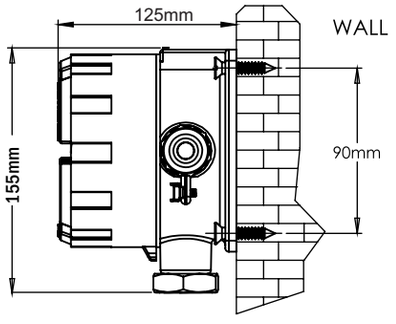
Back View



Flameproof (FLP)



SIDE VIEW



ORDERING INFORMATION

LPI— A — B

A) Model No.
1) LPI-400

B) Enclosure
1) FLP - (Flameproof)
2) WP - (Weatherproof)
3) PM - (Panel Mount)

*** Before placing order please Refer the above ordering information or Contact below address for assistance.**

Manufactured by :

AMBETRONICS ENGINEERS PVT. LTD.

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Version : LPI-400 series-R1-18-09-2023

Specifications subject to change without any prior notice