LPI-1-XP

Ex-Proof Loop Powered Indicators

-LED Display
-Wall Mount or Pipe Mount

RoHS

Masibus LPI-1-XP Explosion Proof series Loop powered Indicator is available in two mounting types; Wall mount and 2" Pipe Mount, having LED display. Both models are two-wire loop powered and need no Auxiliary power. The voltage drop across the loop is limited to 5V maximum.

Loop powered Indicator is housed in compact Ex-Proof enclosure suitable for Gas Group IIA/IIB, Zone 1 & 2, the enclosure is also IP-65 certified. Both models deliver an accuracy of 0.1% of FS combined with a low temperature drift.

The indication range can be easily scaled by 3 pushbuttons inside, the scale can be set to any range between -1999 to 9999 for 4-20mA input, and reverse scaling is also possible.

The display is factory oriented for horizontal or vertical mounting but can be also reoriented in the field.

Features

- 4-Digit LED Display option
- Ex-proof protection for Gas groups IIA & IIB, Zone-1 & 2
- IP65 certified
- Loop Powered with low voltage drop
- Reverse scaling for indication range
- Square root extraction
- Accuracy 0.1% of FS
- Wall or Pipe mounting options

Applications

For hazardous area Loop powered applications in industries like

- Pharma
- Oil & gas
- Petrochemical
- Mining
- Chemicals
- Fertilizer
- Steel

TECHNICAL SPECIFICATIONS

Input

Current	4-20mA
Voltage drop	<5V
Maximum current	30mA
Minimum current for operation	3.5mA

Display

Display	0.56", Seven Segment LED, Red 4-digit
Indication Range	-1999 to 9999
Decimals	Selectable, 0 to 3
Response time	<500 mSec

Configuration

Scaling	Via Three pushbuttons at front panel

Accuracy

Indication	0.1% of FS (+/- 1 digit)
Resolution	16 bits
Temp-co	<100ppm

Physical — Material (Aluminium + Alloy LM-6)

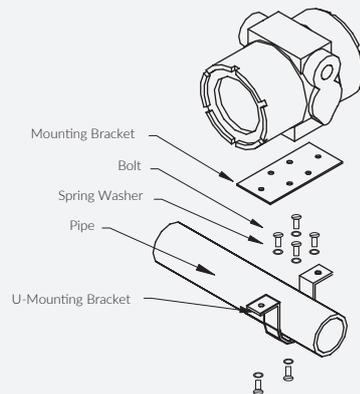|	
Material	Cast Aluminium Alloy LM-6
Gas Group, Zone	IIA/IIB, Zone 1 & 2
IP (Ingress Protection)	Enclosure IP-65
Cable entry size/no	M20 double compression cable glands- 2 Nos
Dimensions (in mm)	112 (W) x115 (H) x146 (D)
Weight	2.2 Kg
Terminal Cable Size	2.5 mm²

Environmental

Operating Temperature	0 to 55 °C
Storage Temperature	0 to 80 °C
Humidity	20 to 95% (non-condensing)

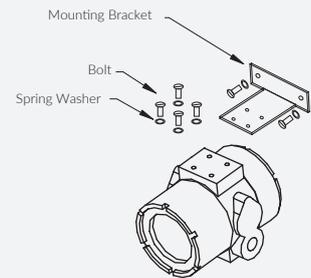## Mechanical Layout: (For Aluminium Alloy LM-6 Enclosure)

Vertical Pipe Mounting	Horizontal Pipe Mounting	Wall Mounting
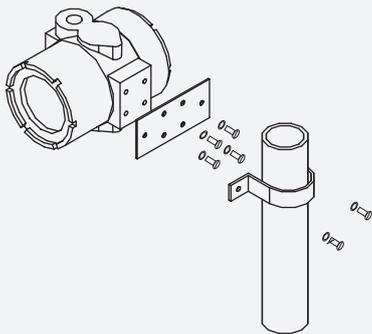
ORDERING CODE

Model	Display	Mounting	
LPI-1-XP	LED	VP	Vertical Pipe Mount
		HP	Horizontal Pipe Mount
		W0	Wall Mount

Accessories (Optional)		
Mounting Kit		
1	Pipe Mounting kit	m-MK-FP-60-1
2	Wall Mounting kit	m-MK-FW-60-1