LOOP POWERED LED INDICATOR
PROGRAMMABLE

4~20 mA LOOP CURRENT INPUT

LOOP VOLTAGE DROP <5V

0.1% ACCURACY

IP66 FRONT

LINEAR / SQUARE ROOT MODE

OVERVOLTAGE PROTECTION

FIELD MOUNT

FLAMEPROOF - SURFACE MOUNT

FLAMEPROOF - PIPE MOUNT

ABOUT PLD40

PLD40 is loop powered LED indicator, with 4-digit red LED display. The series PLD40 accepts 4~20 mA input signal and displays the associated process variable. With it's cutting edge technology the offered PLD40 is considered as the best alternative to analog meter. The instrument can be configured by the use of three push button key available on front. MIN/MAX feature is given & can be accessible using key on front. PLD40 available in Panel mount, wall mount & FLP version.

APPLICATIONS

- Excellent visibility in poor lighting conditions
- Provides process value indication in various industrial control & measurement applications such as pressure, flow, level, temperature, humidity.
- Can be used as remote indicator where power source is not available

PLD40

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PROGRAMMABLE

SPECIFICATIONS
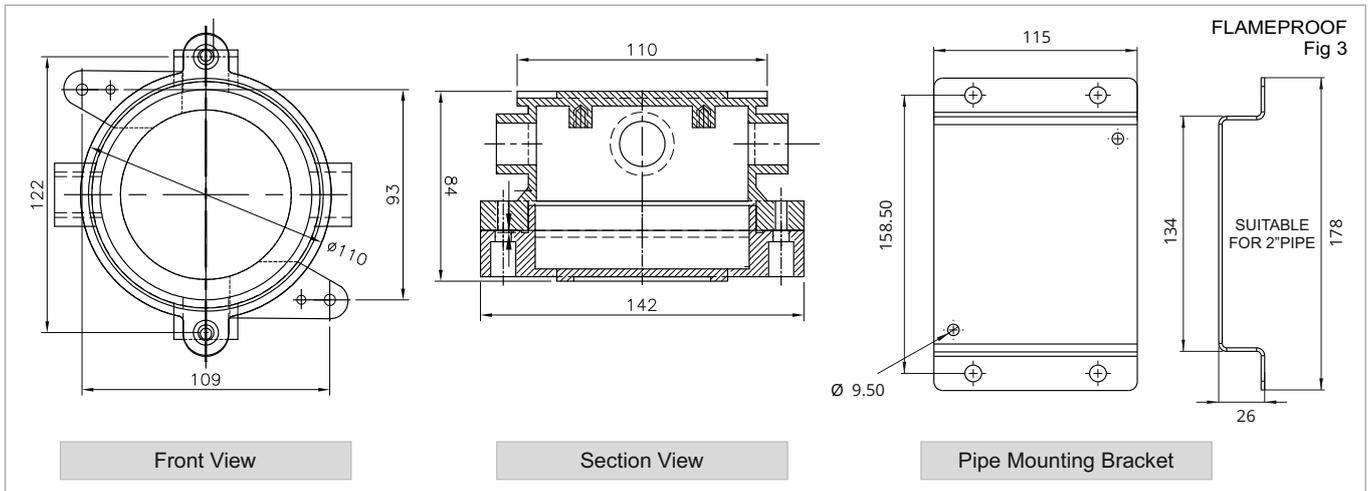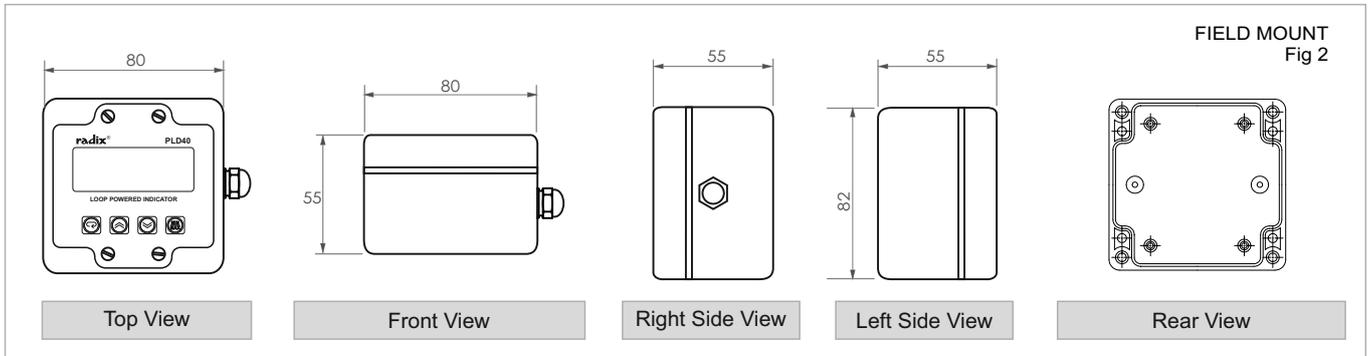**All specifications at ambient of 25 °C, unless specified otherwise**

INPUT
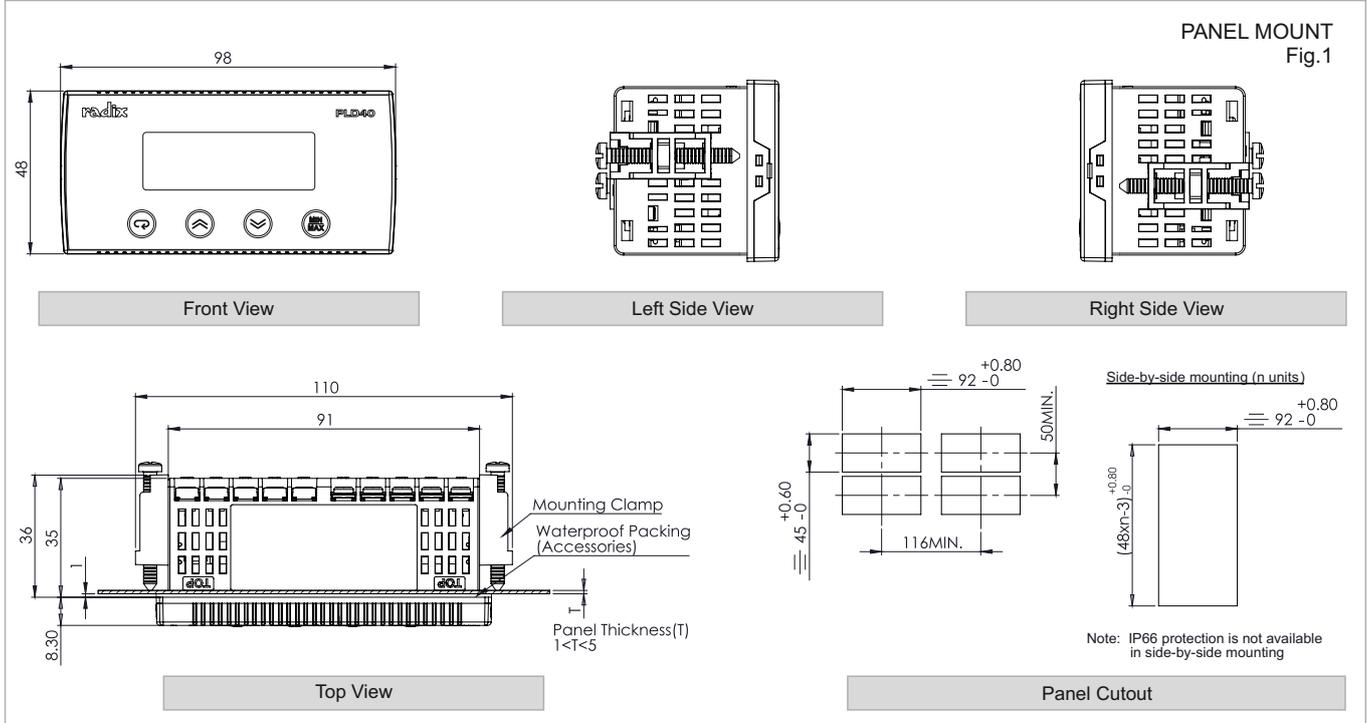
Input	Loop supply DC current
Operating input current	3.6 ~ 25 mA current input
Maximum Input Current	100mA
Range	-1999 to 9999 user selectable with resolution 0.001, 0.01, 0.1 or 1

ACCURACY

Linear	± 0.1% of span (typical)
Square root	± 0.5% of span
Temperature coefficient of accuracy	± 0.005% span/°C

RESPONSE TIME < 0.5 seconds

MONITOR

Under Range	User set upto 3.6mA, For input current <3.6mA display shows Under Range
Over Range	User set upto 25mA , For input current >25mA display shows Over Range

DISPLAY Single row 4 digit, 0.56" (14.2 mm) display

POWER SUPPLY

Supply voltage	4 to 20 mA loop powered
Voltage drop	< 5 volts
Over voltage protection	Provided
Short-circuit protection	Provided
Reverse polarity	Provided

MECHANICAL See Table 1

TEMPERATURE, HUMIDITY

Ambient, storage	-35 ~ +100 °C
Ambient, operation	-20 ~ +85 °C
Stability	0.0012 % / °C

PROGRAMMABLE PARAMETERS

Low scale	Over full range
High scale	Over full range
Mode	Linear, square root 1 & square root 2
Decimal point	0.001, 0.01, 0.1 or 1
Digital filter	0~9
Underrange	3.6~4.00mA
Overrange	20.0~25.0mA
Bias	0~1000

TABLE1 - MECHANICAL

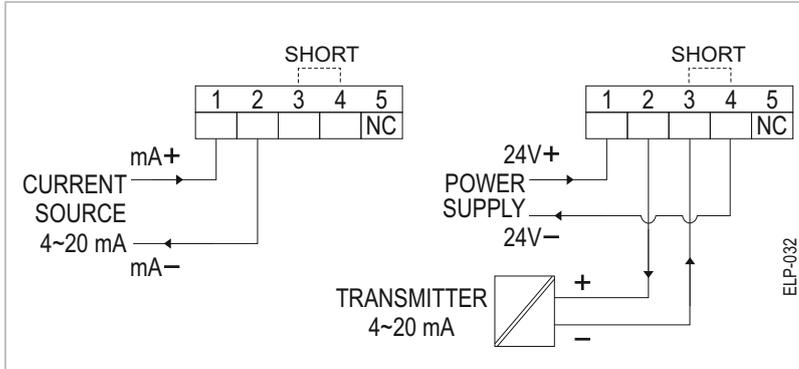| Parameters	Panel mount	Field mount	Flameproof
Dimensions (in mm)	48(H) x 96(W) x 35(D)	55(H) x 82(W) x 80(D)	142(W) x 84(D)
Enclosure housing	ABS plastic, grade: UL94V-0	ABS plastic	Light Alloy (LM6)
Protection	Front : IP66 (IEC) / NEMA 4X (optional) (When properly installed using IP66 kit) Rear (behind panel) : IP20 (IEC)	IP65	IP66 as per IS/IEC:60529-2009
Cable gland		PG7, suitable for cable dia 3 to 6.5	One 1/2 " NPT cable entry
Certification	-	-	IS/IEC:60079-1-2007 for Gas Group IIA & IIB
Reference	Fig. 1	Fig. 2	Fig. 3

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DIMENSIONS mm

PANEL MOUNT
Fig.1

98

48

PLD40

Front View

Left Side View

Right Side View

110

91

36

35

1

8.30

Mounting Clamp
Waterproof Packing (Accessories)

Panel Thickness(T)
1<T<5

Top View

$92 \begin{smallmatrix} +0.80 \\ -0 \end{smallmatrix}$

50MIN.

$45 \begin{smallmatrix} +0.60 \\ -0 \end{smallmatrix}$

116MIN.

Side-by-side mounting (n units)

$92 \begin{smallmatrix} +0.80 \\ -0 \end{smallmatrix}$

$(48 \times n - 3) \begin{smallmatrix} +0.80 \\ -0 \end{smallmatrix}$

Note: IP66 protection is not available in side-by-side mounting

Panel Cutout

FIELD MOUNT
Fig 2

80

radix PLD40

LOOP POWERED INDICATOR

Top View

80

55

Front View

55

Right Side View

55

82

Left Side View

Rear View

FLAMEPROOF
Fig 3

122

93

Ø110

109

Front View

110

84

142

Section View

115

158.50

Ø 9.50

134

178

SUITABLE FOR 2"PIPE

26

Pipe Mounting Bracket

LOOP POWERED LED INDICATOR
PROGRAMMABLE

CONNECTION DIAGRAM

ELP-032

ORDERING INFORMATION

Example	2798	0	
Product Code	2798		
Enclosure		0	Panel Mount
		1	Field Mount
		2	Flameproof - Surface Mount
		3	Flameproof - Pipe Mount

EXAMPLE

2798   0

└── Mounting : Panel Mount

ACCESSORIES**	RADIX PART NO.
1/2" NPT CABLE GLAND*	AMA-365

*For FLP Enclosure

 **Accessories to be purchased separately

CAT#140R14/A