



## Loop Powered LED Indicators for Field and Panel Mounting

### MAIN FEATURES

**LED-W11 and LED-P11 are two digital indicators for installation directly in a 4-20 mA loop without need for external power.**

**LED-W11 is designed for field mounting on wall, pipe or DIN rail and has a rugged and splashproof housing.**

**LED-P11 is the panel mount version with splashproof front.**

**The indicators are equipped with bright easy-to-read LED digits.**

**The scale is easily programmable, without reference signal, by two pushbuttons for any values between -1999 and 9999.**

#### 4-digit LED display

LED-W11 and LED-P11 are equipped with a bright luminous 4-digit LED display, which is easy to read even in the dark. The digits are red and 14.2 mm (0.56") high.

#### Loop powered with low voltage drop

The voltage drop is below 5V. LED-W11 and LED-P11 can therefore be connected to the 4-20 mA loop of any normal 2-wire transmitter with no need for external power.

#### High accuracy

With an accuracy of 0.05 % combined with a low temperature drift LED-W11 and LED-P11 allow for high precision read-outs.

#### Simple pushbutton scaling

The indication range can easily be scaled. The panel mounted LED-P11 is furnished with two front mounted pushbuttons. The field mounted LED-W11 is splashproof with two internal pushbuttons.

The scale can be set to any range between -1999 to 9999 for 4 to 20 mA input. Scaling operation does not require the use of a specific input signal.

Labels for different engineering units are included.

#### Transmitter option

The field indicator LED-W11 can be equipped with an integrated Inor In-Head transmitter of any type.

#### Rugged design with IP 65/NEMA 4X protection

LED-W11 is equipped with a rugged and splashproof IP 65 / NEMA 4X housing with double cable conduits for convenient installation.

LED-P11 has a splashproof front with IP 65 / NEMA 4X protection.

The indicators are designed for ambient temperatures between -25 to +80 °C (-13 to +176 °F).

#### HART transparent

Both indicators are HART transparent, which means that they will not interfere with or be disrupted by HART communication over the current loop.

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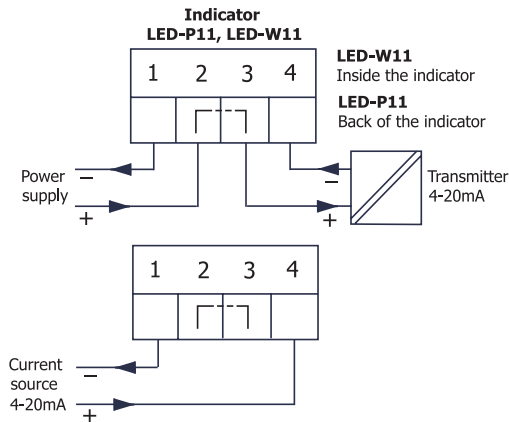
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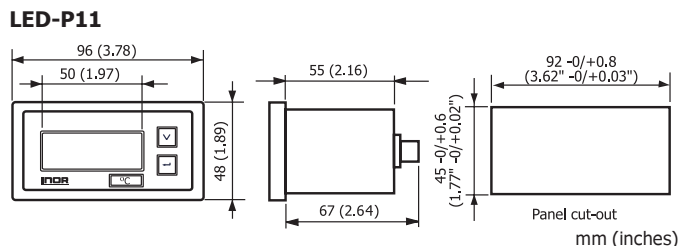
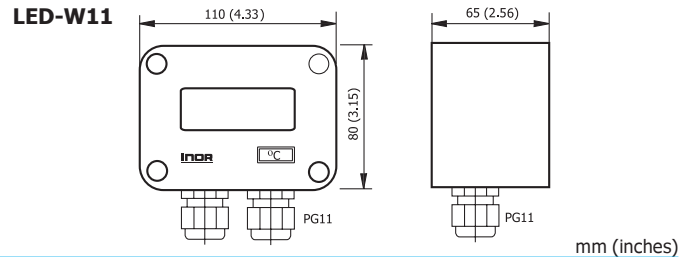
## SPECIFICATIONS LED-W11 / LED-P11

<b>INPUT</b>		
Current		4-20 mA
Voltage drop		< 5 V
Maximum current		30 mA
Minimum current for operation		-3.5 mA
<b>INDICATION</b>		
Display		Red LED with 4 digits including minus sign
Digit height		14.2 mm (0.56")
Indication range		Any range between -1999 to 9999
Decimals		Selectable, 0 to 3
Under range / Over range		Flashing symbols LO/HI
Response time, T (90 %)		Appr. 0.5 s
Engineering units		Set of labels included (including blanks)
<b>CONFIGURATION</b>		
Indication range (4-20 mA input)	LED-W11	Two pushbuttons inside the housing
	LED-P11	Two pushbuttons in the front
Input signal for setting range		Any current 3.5 mA to 30 mA
<b>ENVIRONMENT CONDITIONS</b>		
Ambient temperature	Operation	-25 to +80 °C (-13 to +176°F)
	Storage	-35 to +80 °C (-31 to +176°F)
Humidity		0 to 95 %RH
RFI influence		<0.5 % FS (typical)
EMC (EN 50081-2, EN 50082-2 Industrial)		Criterion A/B
<b>ACCURACY</b>		
Indication		±0.05 % FS ±1 digit
Resolution		12 bits (-4 µA)
Temperature influence		±0.25 % FS / 25 °C (45°F)
Long-term stability		±0.1 % FS / year
<b>HOUSING</b>		
Dimensions	LED-W11	80 x 110 x 65 mm (3.15" x 4.33" x 2.56")
	LED-P11	48 x 96 x 67 mm (1.89" x 3.78" x 2.64")
Weight	LED-W11	-230 g/8.1 oz
	LED-P11	-120 g/4.2 oz
Material / Flammability (UL)	LED-W11	PC / UL 94-5V Self-extinguishing
	LED-P11	Noryl / UL 94 HB Self-extinguishing
Protection	LED-W11	IP 65 / NEMA 4X
	LED-P11	IP 65 / NEMA 4X (front)
Wire connections	LED-W11	Stranded, ≤1.5 mm <sup>2</sup> , AWG 16, 2 conduits PG11
	LED-P11	Stranded, ≤2.5 mm <sup>2</sup> , AWG 12
Mounting	LED-W11	Rail acc. to DIN EN 50022, 35 mm, wall or 2" pipe
	LED-P11	Panel mounting, cut-out 45 x 92 mm (1.77" x 3.62")

## CONNECTIONS



## DIMENSIONS



## ORDERING INFORMATION

<b>LED-W11</b>	<b>70LEDW1101</b>
<b>LED-P11</b>	<b>70LEDP1101</b>
<b>Configuration</b>	<b>70CAL00001</b>
<b>Transmitter mounting kit</b>	<b>70ADA00024</b>
<b>Pipe mounting kit</b>	<b>70ADA00021</b>
<b>Din-Rail mounting kit</b>	<b>70ADA00022</b>

## DISTRIBUTION