DPI-1

UNIVERSAL INPUT PROCESS INDICATOR

Features

- ON/OFF controller
- Single Channel
- Universal Input
- Open Sensor Indication
- Software Calibration
- Cold junction Compensation for thermocouple input

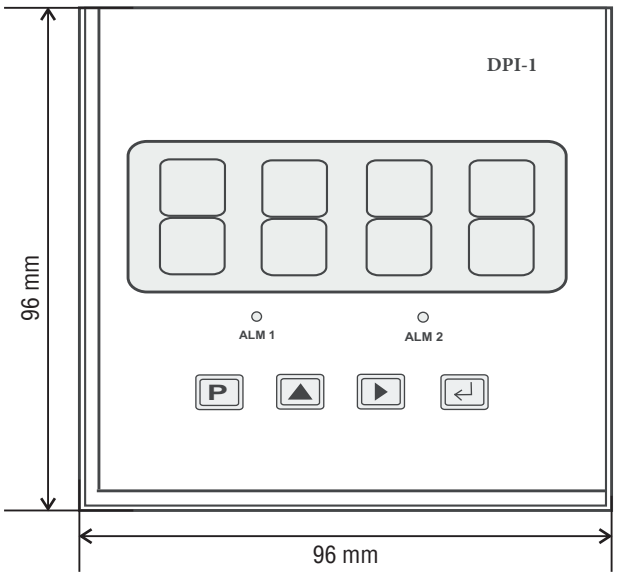
Description

BRIX Series DPI–1 is universal input Process Indicator / Controller specially designed for various industrial applications. These can be used for monitoring and controlling parameters like Temperature, Humidity, Pressure, Flow, Level etc. The measuring range and control points are settable through the keypad on front fascia and control output is available at the rear terminals. Low cost design in compact size with large display height is additive feature of DPI-1.

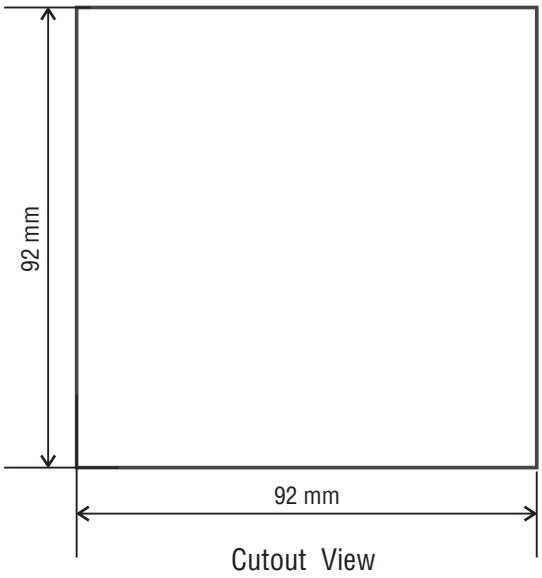
Technical Specifications

Type of Control	ON / OFF
No. of Input	01 No.
Input	1) Universal
	2) RTD (PT–100 / PT–200) 2 or 3 Wire
	3) Thermocouple (J / K / R / S / T / B / E Type)
	4) Current (0–20 mA / 4–20 mA)
	5) Voltage (0–5V DC / 0 – 0.1V DC)
Display	LED Display
Range	1) Programmable for mA & Voltage (–999 to +9999)
	2) Fixed for all types of RTD & Thermocouple
Accuracy	1) For R, S & B type Thermocouple, better than ± 0.5% of F. S.
	2) For rest inputs, better than ± 0.25% of F. S.
Open Sensor Indication	'OPEN' on display for RTD & TC input
Power Supply	90 – 250V AC
Power Consumption	< 10 VA
Temperature Drift	< 0.01% of F. S. per °C change
Response Time	< 200 mSec
MOC Electronics Enclosure	1) DIN Standard
	2) Flameproof (CMRI IIA IIB Certified)
Bazel Size	1) 96 (H) x 96 (W) x 160 (D) in mm approx. for DIN STD. Enclosure
	2) 48 (H) x 96 (W) x 160 (D) in mm approx. for DIN STD. Enclosure
Mounting	Flush of the Panel for DIN std & wall mount for WP / FLP enclosure
Weight	500 gms. (Approx.) for 48 X 96, Less than 1 Kg for 96 X 96
Ambient Conditions	Temperature –20 to 55 °C / Humidity 5 to 95% non condensing
Transmitter Power Supply	24V DC 30 mA, 24V DC 100 mA
Retransmission Output	4 – 20 mA / 0 – 5V, Isolated
Alarm Output	Potential free Relay Contact – 2 Nos. (1 c/o, 1A @ 230 V AC) Configurable for high & low
Communication Port	RS485 with MODBUS RTU Protocol

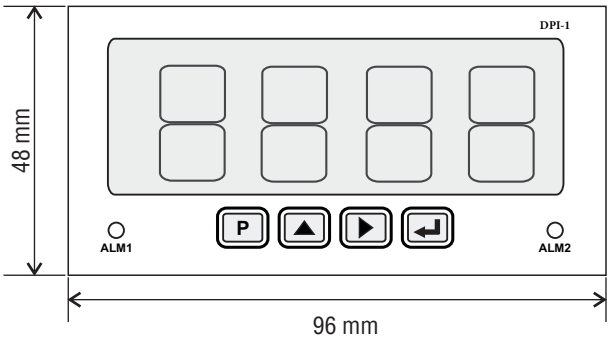
Dimensional Details



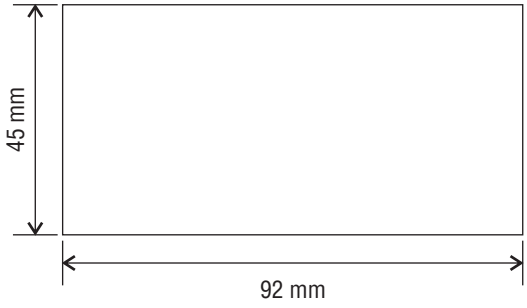
Front View



Cutout View

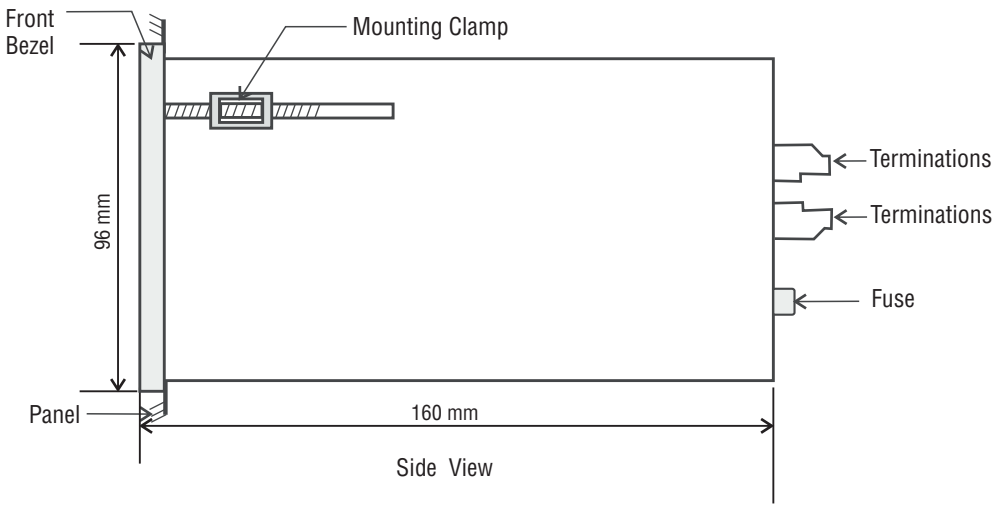


Front View



Cutout View

Installation Drawing



Side View

Ordering Information

Sample Order Code :

A1	B3	C1	D2	G2	I1	J2	K1

Parameter		Code	Description
A	Electronics Enclosure	A1	DIN Standard
		A3	Flameproof (CMRI IIA IIB Certified)
B	Bazel Size	B3	48 mm X 96 mm
		B4	96 mm X 96 mm

Note : In case of Panel Mount only.

Parameter		Code	Description
C	Power Supply	C1	90 to 250V AC
		CY	Other
D	Input 1	D1	4 to 20mA
		D2	0 to 5V
		D5	RTD
		D6	Thermocouple
		D7	Current
		D8	Voltage
		D9	Universal
		DY	Other

Parameter		Code	Description
G	Output 1	G1	4 to 20 mA
		G2	0 to 5V
		GX	NA
I	Relay or Alarm Output	I1	1 Relay Output
		I2	2 Relay Outputs
		IX	NA
J	Transmitter Power Supply	J1	24V DC 100 mA
		J2	24V DC, 30 mA
		JX	NA
K	Communication Output 1	K1	RS485 (MODBUS RTU)
		KX	NA

Note :
- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.

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