

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

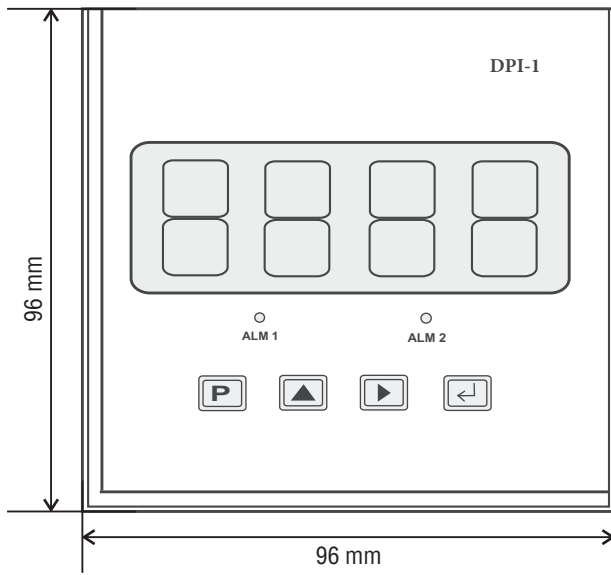
Description

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.

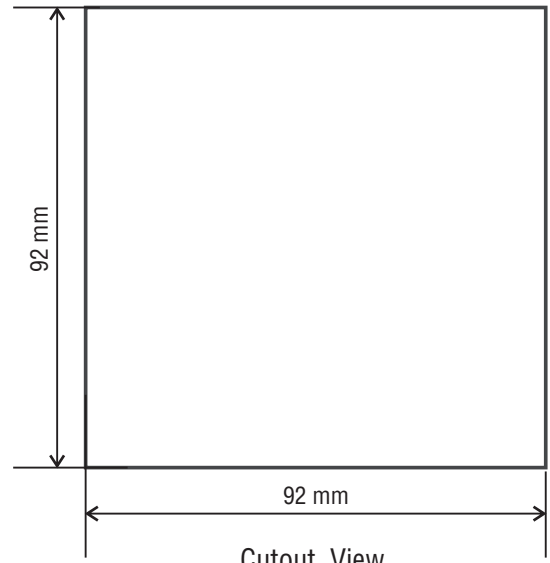
Technical Specifications

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 $\pm 0.5\%$ of F. S.
	2) For rest inputs, better than $\pm 0.25\%$ 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

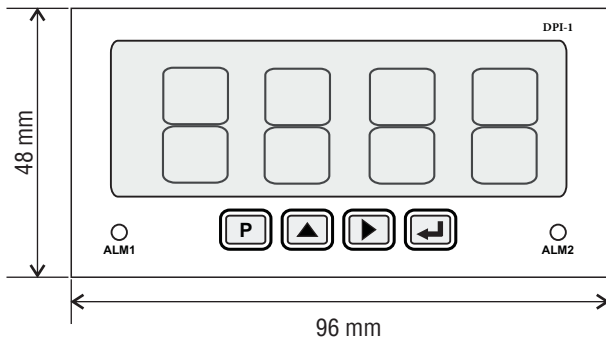
Dimensional Details



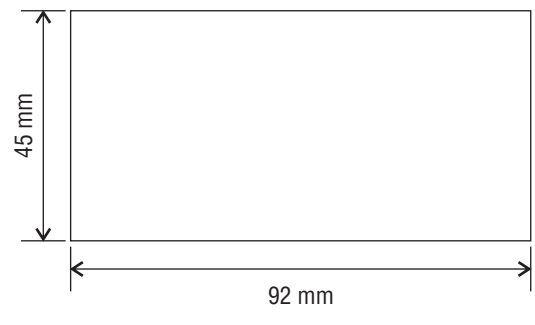
Front View



Cutout View

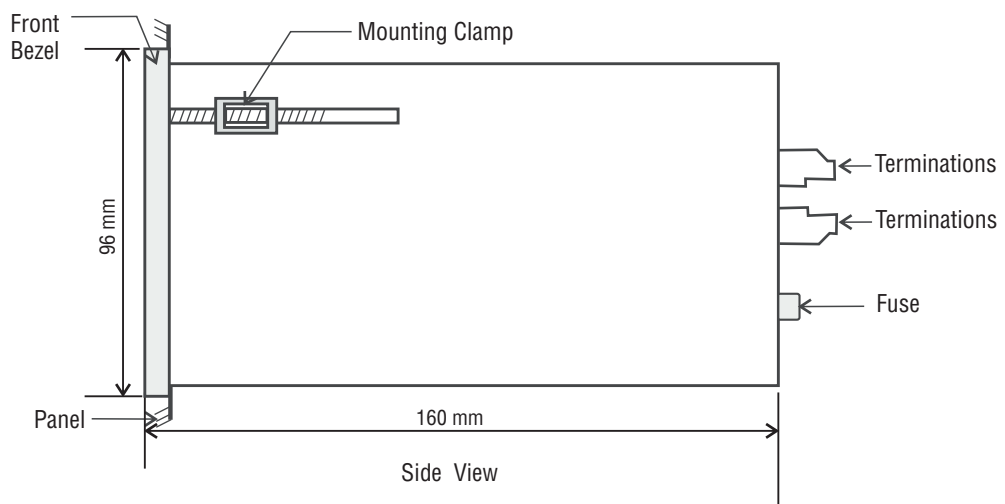


Front View



Cutout View

Installation Drawing



Side View

Ordering Information

Sample Order Code :

A1	B3	C1	D2	G2	I1	J2	K1
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Parameter	Code	Description	Parameter	Code	Description		
A	Electronics Enclosure	A1	DIN Standard	G	Output 1	G1	4 to 20 mA
		A3	Flameproof (CMRI IIA IIB Certified)		G2	0 to 5V	
			GX		NA		
B	Bazel Size	B3	48 mm X 96 mm	I	Relay or Alarm Output	I1	1 Relay Output
		B4	96 mm X 96 mm			I2	2 Relay Outputs
			IX			NA	
C	Power Supply	C1	90 to 250V AC	J	Transmitter Power Supply	J1	24V DC 100 mA
		CY	Other			J2	24V DC, 30 mA
			JX			NA	
D	Input 1	D1	4 to 20mA	K	Communication Output 1	K1	RS485 (MODBUS RTU)
		D2	0 to 5V			KX	NA
		D5	RTD	Note : <ul style="list-style-type: none"> ▪ 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. 			
		D6	Thermocouple				
		D7	Current				
		D8	Voltage				
		D9	Universal				
		DY	Other				