

DPC 100

SINGLE INPUT PROCESS INDICATOR



Features

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



Description

Electronet Series DPC-100 is Digital 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 able to set through the keypad on front fascia and control output is available at the rear terminals. Retransmission output & communication port are additive features of DPC-100.

Technical Specifications

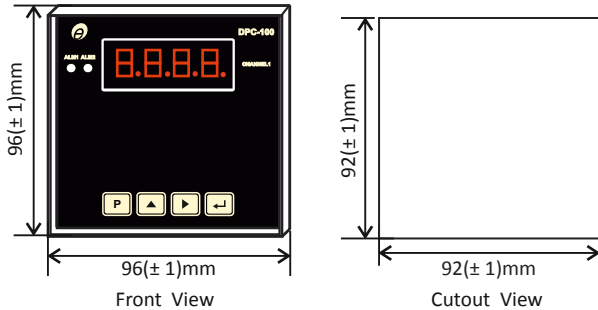
Performance Characteristics	
Type of Control	ON/OFF
No. of Inputs	01 No.
Input	1) RTD (PT-100 / PT-200) 2 or 3 Wire
	2) Thermocouple (J / K / R / S / T / B / E Type)
	3) Current (0-20 mA / 4-20 mA)
	4) Voltage (0-5V DC / 1-5V DC / 0 - 0.1V DC)
Display	LED Display
Range	Programmable for mA & Voltage (-999V to +9999V)
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 & Thermocouple input
Power Supply	90 - 250V AC, 24 VDC
Power Consumption	< 10VA
Temperature Drift	< 0.01% of F. S. per $^{\circ}\text{C}$ change
Response Time	< 200 mSec
Isolation	1.4 KV between Input, Output & Power Supply
MOC Electronics Enclosure	1) DIN Standard
	2) Field Mount IP 65
	3) Flameproof (CMRI IIA IIB Certified)
Base Size	96 (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	Less than 1 Kg (Approx.)
Ambient Temperature	Temperature -20 to 70 $^{\circ}\text{C}$ / Humidity 5 to 95% non condensing
OPTIONAL	
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 - 4 Nos. (1 c/o, 1A @ 230V AC)
	Individual Configuration for high, low
Communication Port	RS485 supporting MODBUS RTU protocol

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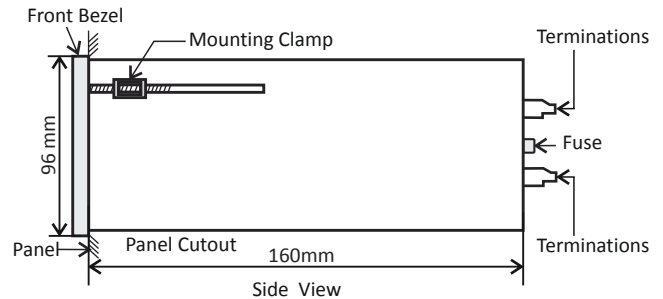
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Assembly Overview



Installation Drawing



Ordering Information

Sample Order Code : DPC-100-A1-B1-C1-D1-E1-F1-G1

Parameter		Code	Description
A	Electronics Enclosure	A1	DIN Standard
		A2	Field Mount IP 65
		A3	Flameproof (CMRI IIA IIB Certified)
B	Input Power Supply	B1	90 to 250 VAC
		B2	24 VDC
		BY	Other
C	Input 1	C1	4 to 20 mA
		C2	0 to 5V
		C3	1 to 5V
		C4	RTD
		C5	Thermocouple
		C6	Current customized
		C7	Voltage customized
		CY	Other
D	Output 1	D1	4 to 20 mA
		D2	0 to 5V
		DX	NA

Parameter		Code	Description
E	Alarm or Relay Output	E1	1 Relay Output
		E2	2 Relay Outputs
		E3	3 Relay Outputs
		E4	4 Relay Outputs
		E5	5 Relay Outputs
		E6	6 Relay Outputs
		EX	NA
F	Transmitter Power Supply	F1	24 V DC 100 mA
		F2	24 V DC 30 mA
		FX	NA
G	Communication Output 1	G1	RS485 (MODBUS RTU)
		GX	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.
- This product is meant for laboratory/Process application only and not for custody transfer application.

ELECTRONET EQUIPMENTS PVT. LTD.



Manufacturing Unit - I & Registered Office

Plot No. 84, 85, 86, Tiny Industrial Estate,
Kondhwa Budruk, Pune - 411 048, Maharashtra, India.

Manufacturing Unit - II

Plot No. 8, (SEZ) Phase 1, Kesurdi MIDC,
Khandala, Dist.- Satara Pin: 412 801, Maharashtra, India.

+91-20-26931476 sales@electronet.co.in

Sales ☎ +91-9922931722
Enquiries ✉ enquiries@electronet.co.in
Service Support ☎ +91-9922442181
✉ service@electronet.co.in
Logistic Assistance ☎ +91-9922442184
✉ dispatch1@electronet.co.in