

DPC - 100KK

UNIVERSAL INPUT PROCESS INDICATOR DUAL DISPLAY

Features

- ON/OFF Controller
- Single Channel
- Software Calibration
- Open Sensor Indication
- Universal input
- Cold Junction Compensation for thermocouple input
- Separate display for Process Value & Engineering Unit



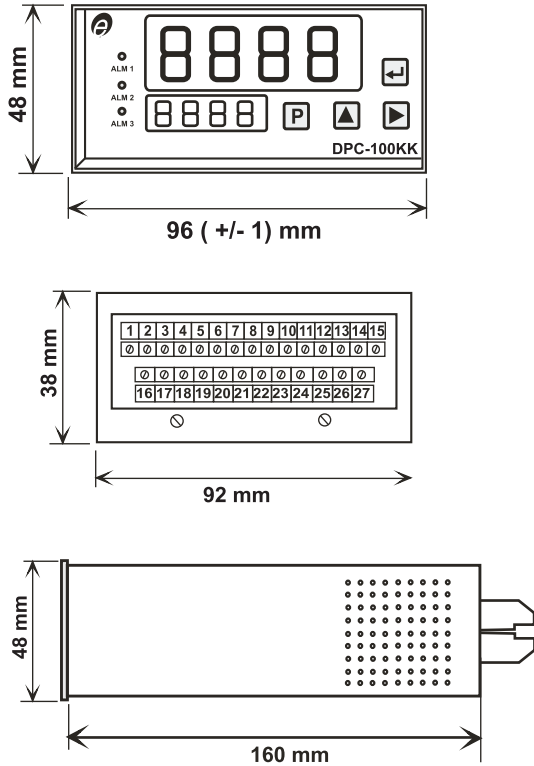
Description

Electronet's Series DPC-100KK 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, Speed, 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. Separate display for engineering unit is additive feature of DPC-100KK.

Technical Specifications

Type of Control	ON/OFF	
No. of Inputs	01 No.	
Input	Universal	1) RTD (PT-100 / PT-200) 2 or 3 Wire, Cu-53 & Potentiometric
		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 - 10V DC)
Display	LED Display	
Range	Programmable for mA & Voltage (-1999 to +9999) & Fixed for all types of RTD & TC	
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	
Power Consumption	< 10VA	
Temperature Drift	< 0.01% of F. S. per $^{\circ}\text{C}$ change	
Response Time	< 100 mSec	
MOC Electronics Enclosure	1) DIN Standard	
	2) Weather Proof IP 65	
	3) Flameproof (CMRI IIA IIB Certified)	
Bazel Size	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	Less than 500 gms. (Approx.)	
Ambient Temperature	Temperature -20 to 55 $^{\circ}\text{C}$ / Humidity 5 to 95% non condensing	
OPTIONAL		
Transmitter Power Supply	24V DC 30 mA	
Alarm Output	Potential Free Relay Contact - 3 Nos. (1 c/o, 1A @ 230V AC)	
	Individual Configuration for high, low, high-high, low-low & deviation	
Communication Port	RS485 with MODBUS RTU Protocol	

Dimensional Details



INPUT RANGES

INPUT	TYPE	RANGE
RTD	PT-100	-200 to +400 °C
RTD	PT-200	-200 to +400 °C
RTD	Cu-53	-1999 to +9999 Programmable
TC	J Type	-210 to +1200 °C
TC	K Type	-270 to +1370 °C
TC	R Type	-50 to +1760 °C
TC	S Type	-50 to +1760 °C
TC	T Type	-270 to +400 °C
TC	E Type	-270 to +1000 °C
TC	B Type	0 to +1820 °C
mA	0-20 / 4-20	-1999 to +9999 Programmable
V	0-5 / 1-5 / 0-10	-1999 to +9999 Programmable

Ordering Information

Sample Order Code : A1 B3 C1 D1 G1 I2 J2 K1

Parameter	Code	Description
A	A1	DIN Standard
	A2	Weather Proof IP 65
	A3	Flameproof (CMRI IIA IIB Certified)
B	B3	48 mm x 96 mm
	BY	Other
C	C1	90 to 250V AC
	CY	Other
D	D1	4 to 20mA
	D9	Universal
G	G1	4 to 20 mA
	G2	0 to 5V
	GX	NA

Parameter	Code	Description
I	I1	1 Relay Output
	I2	2 Relay Outputs
	IX	NA
J	J2	24 V DC, 30 mA
	JX	NA
K	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.

ELECTRONET EQUIPMENTS PVT. LTD.

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