

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

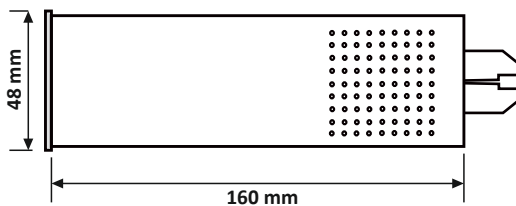
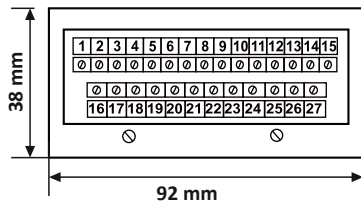
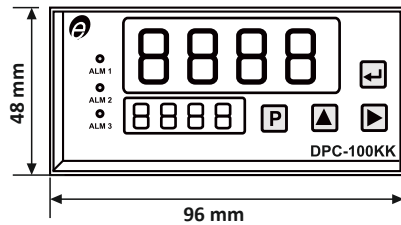
Performance Characteristics		
Type of Control	ON/OFF	
No. of Inputs	01 No.	
Input	Universal	1) RTD (PT-100 / PT-200) 2 or 3 Wire, Cu-53 & Potentiometric
		2) Thermocouple (J / K / R / S / T / B / E Type)
		3) Current (0-20 mA / 4-20 mA)
		4) Voltage (0-5V DC / 1-5V DC / 0 - 10V DC)
Display	LED Display	
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 ± 0.5% of F. S.	
	2) For rest inputs, better than ± 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 °C change	
Response Time	< 100 mSec	
MOC Electronics Enclosure	1) DIN Standard	
	2) Field Mount 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 70 °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	

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Assembly Overview



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 : DPC-100KK-A1-B1-C1-D1-E1-F1-G1-H1

Parameter		Code	Description
A	Electronics Enclosure	A1	DIN Standard
		A2	Field Mount IP 65
		A3	Flameproof (CMRI IIA IIB Certified)
B	Bazel Size	B1	48 mm x 96 mm
		BY	Other
C	Input Power Supply	C1	90 to 250V AC
		CY	Other
D	Input	D1	4 to 20mA
		D2	Universal
E	Output	E1	4 to 20 mA
		E2	0 to 5V
		EX	NA

Parameter		Code	Description
F	Alarm or Relay Output	F1	1 Relay Output
		F2	2 Relay Output
		FX	NA
G	Transmitter Power Supply	G1	24 V DC 30 mA
		GX	NA
H	Communication Output 1	H1	RS485 (MODBUS RTU)
		HX	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.



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