

MICROCONTROLLER BASED TEMPERATURE INDICATOR

DPI10SF



The POLMON “Digitized Process Indicator” has been specially developed to ease out the process of Data Acquisition with PLC based systems in Pharmaceutical industry. Instrument is user Friendly and ease to operate. Software Calibration with Magnetic Keys eliminates instrument opening in restricted areas.

Features

- Flame Proof Enclosure for Zone1, Zone2 Gas Gr.IIA, IIB
- Analog Input types RTD / 4-20mA (Field Configurable)
- Optional 4-20mA or MODBUS Interface for PLC / SCADA systems (Max 31 Devices without Repeater)
- Optional Single Set Relay output
- Password security to prevent unauthorized access (reconfigurable by user)

- True 3-wire Configuration
- User friendly local software Calibration for Analog Input & Analog Output
- Magnetic keys Operations eliminates frequent keypad maintenance problems
- Dual displays for Process Values
- True 3-wire RTD with lead wire compensation
- Status Indication such as Sensor open and Communication failure

Applications

- Pharmaceutical Industries

Specifications

Technical

Model No	DPI10S-X-X-X-X-X-X		
No. of Channel	1		
Analog Input Type	RTD (Pt100 (DIN IEC 751 Std))/ mA (4-20) (Field Configurable)		
Measuring Range, Accuracy and Resolution	Measuring Range	Resolution	Accuracy
RTD	-199.0 to 500.0°C	0.1	±0.1% of FSR
	-1.999 to 9.999	0.001	
	-19.99 to 99.99	0.01	
	-199.9 to 999.9	0.1	
4-20mA	-199.9 to 999.9	0.1	±0.1% of FSR
	-1999 to 9999	1	
Analog Output	4-20mA (500 Ohms of Max load), Accuracy: ±0.05% of span		
Digital Output	1 NO NC (Relays)		
Calibration	Zero & Span through keypad		
Display	0.8" 4 digit seven segment LED display		
	0.39" 4 digit seven segment LED Display		
	3mm LED's for status indication		
Scan Rate	1 Sec		
Communication	RS485 Proprietary / MODBUS RTU / WIFI		
Control Type	On/Off		
Control Modes & Control O/P	Control Modes	Control Outputs	
	Heat/Cool	1 NO/NC 230VAC, 2 Amp	
	Dead band		
Memory	Non volatile Flash memory for programming parameters		
Security	Password protected programming mode		

Power Supply

Input Supply	24V AC/DC ,200mA (or) 100 to 260V AC, 50Hz, 25W (To be specified while ordering)
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Physical

Enclosure	Aluminium Flame Proof and Weather Proof Dual Chamber For Gas Gr.IIA, IIB Explosive atmospheres.
Material	Aluminium
Weight	5.5Kg (approx)
Cable Entries	5 No's ½" ET
Glands/ Dummies	Not Provided (Order separately)

Environmental

Operating Temperature	10 to 50 °C
Humidity	10-95%RH, Non-Condensing

Ordering Information for DPI-10S

DPI-10S	X	X	X	X	X	X
Model No	Enclosure Type	Input Type	Communication	Output 1	Power Supply	Future Use
DPI10S	F – FLP	1 – RTD	1 – RS485 PROPERITARY	0 – Relay (1 NO-NC)	1 – 230V	
		2 – 4-20mA (Linear)**	2 – RS485 MODBUS/ PROPERITARY		2 – 24V	
		3 – VACCUM-PRESSUR (4-20mA)	3 – 4-20mA Output			

Note: ** specify the input range for 4mA-XXXX, 20mA-XXXX

MECHANICAL DRAWING OF DPI-10S

