

DUAL CHANNEL TEMPERATURE INDICATOR

DPI12-F



DPI12-C



The POLMON Dual Channel Temperature Indicator has been specially developed to measure Process parameters. Product is designed keeping the end user in mind. Instrument is user friendly and easy to operate. The Instrument is manufactured in accordance with standard CGMP and Good Automated Manufacturing Practices (GAMP) guidelines.

Features

- Analog Input types RTD, 4-20mA (Factory configurable)
- Supports relay control output and current retransmission
- Optional 4-20mA retransmission output for process value / set value
- User friendly local software calibration (Instrument & sensor) facility available
- Errors associated with 4-20mA eliminated with high speed digital communication
- Industrial standard high speed RS485 Communication
- Optional MODBUS interface Max 31 without repeater
- Programmable Baud rate selection 9600/19200/38400
- Non volatile Flash memory for storing program parameters
- Status LEDs indicates the instrument functionality
- Electronic data recording
- Providing highest level of reliability & accuracy in the area of process temperature measurement & control

UPS

- Smart dual channel temperature transmitter/ indicator with optional two relay control outputs
- LED display for operator convenience
- Magnetic Key Operation eliminates frequent keypad maintenance problems due to chemical vapour corrosion
- Fully differential input measurement
- Provides differential / average of channel 1 & 2 data or diagnostic mode
- Status indication like sensor failure & Communication failure
- True 3-wire configuration
- Opto Isolated Analog Input & Communication output
- Optional MODBUS Interface for PLC/SCADA applications

Applications

- Batch process in Bulk Drug Industries
- Pharmaceuticals Industries
- Mines
- Petrochemical Industries

Specifications

Technical

Model No	DPI12-X-X-X-X-X-X-X				
No. of Channel	2				
Analog Input Type	RTD (Pt100 (DIN IEC 751 Std))/ mA (4-20) (Factory 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		
	4-20mA		-19.99 to 99.99	0.01	±0.1% of FSR
			-199.9 to 999.9	0.1	
		-1999 to 9999	1		
Outputs	4-20mA (500 Ohms of Max load), Accuracy: ±0.05% of span				
	1 NO NC (Relays) (optional)				
	Digital transmission (RS485)				
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 (Standard) / MODBUS RTU (Optional)				
Control Type	On/Off				
Control Modes & Control O/P	Control Modes	Control Outputs			
	Heat/Cool	1 C NO/NC 230VAC, 2 Amp (Output1/2)			
	Heat &Cool	2 C NO/NC 230VAC, 2 Amp (Output1&2)			
	Dead band	1 C NO/NC 230VAC, 2 Amp (Output1/2)			
Memory	Non volatile Flash memory for programming parameters				
Security	Password protected programming mode				

Power Supply

Input Supply 100 to 260V AC, 50 Hz, 25W/24VAC/DC, 15W (Optional).

Physical

Enclosure	Aluminium Flame Proof and Weather Proof Dual Chamber For Gas Gr.IIA, IIB, IIC Explosive atmospheres.
Material	Aluminium
Weight	6.2Kg (approx)
Cable Entries	6No's ¾"ET
Glands/Dummy	Not Provided (Order Separately)

Environmental

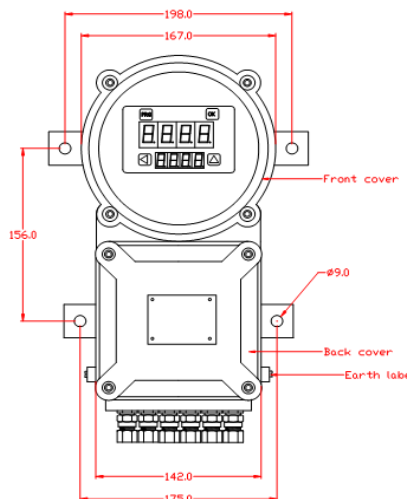
Operating Temperature	10 to 50 °C
Humidity	10-95%RH, Non-Condensing

Ordering Information for DPI12

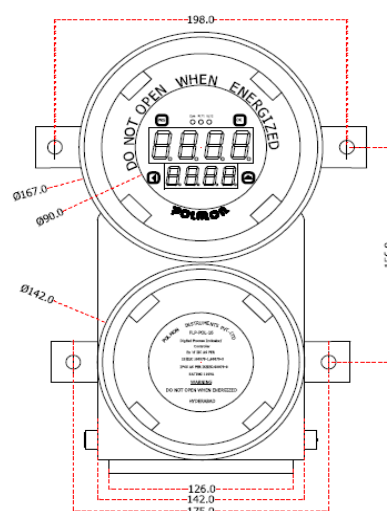
DPI12	X	X	X	X	X	X	X
Model No	Enclosure Type	Channel 1 Input Type	Channel 2 Input Type	Output 1	Output 2	Output 3	Power Supply
DPI12	F – FLP	1 – RTD	1 – RTD	0 – No	1 – Relay 1 Relay 2	1 – RS485-Proprietary	1 – 230VAC
	C – FLP IIC	2 – Current*	2 – Current*	1 – Current retransmission		2 – RS485-MODBUS/Proprietary	2 – 24VDC

Note: *specify the range for current input

MECHANICAL DRAWING OF DPI12-F



MECHANICAL DRAWING OF DPI12-C



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All specifications are subject to change without notice.
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