

DIGITAL PROCESS INDICATOR/CONTROLLER

DPI14



Dual Channel	Dual Analog Inputs
Flame Proof	Dual Analog Outputs
Compact Size	Dual PID Control

The POLMON "Digital Process Indicator/Controller" is the most economical solution for Reactor temperature monitoring, control and data acquisition. Instrument is user friendly and easy to operate. Software calibration with Magnetic keys eliminates instrument opening in restricted area.

Features

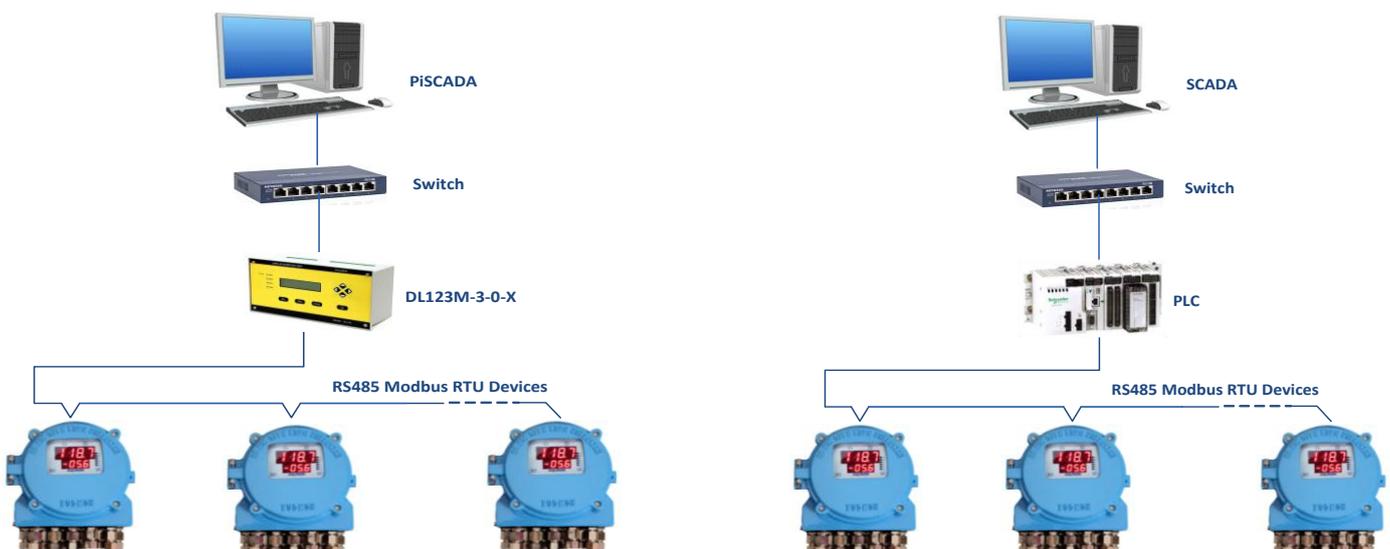
- Flame Proof Enclosure for Zone1, Zone2 Gas Gr.IIA, IIB, IIC
- Analog input types RTD / 4-20mA / 0-10V / 0-1V (Field Configurable)
- RS485 MODBUS RTU
- Two / Four Relay Output
- Optional Dual 4-20mA PID Control / Retransmission Output
- Optional Dual Digital Input (Dry Contact)
- Password security to prevent unauthorized access (reconfigurable by user)

- 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

- Reactor temperature & Control
- Utility temperature

Network Architectures



Specifications

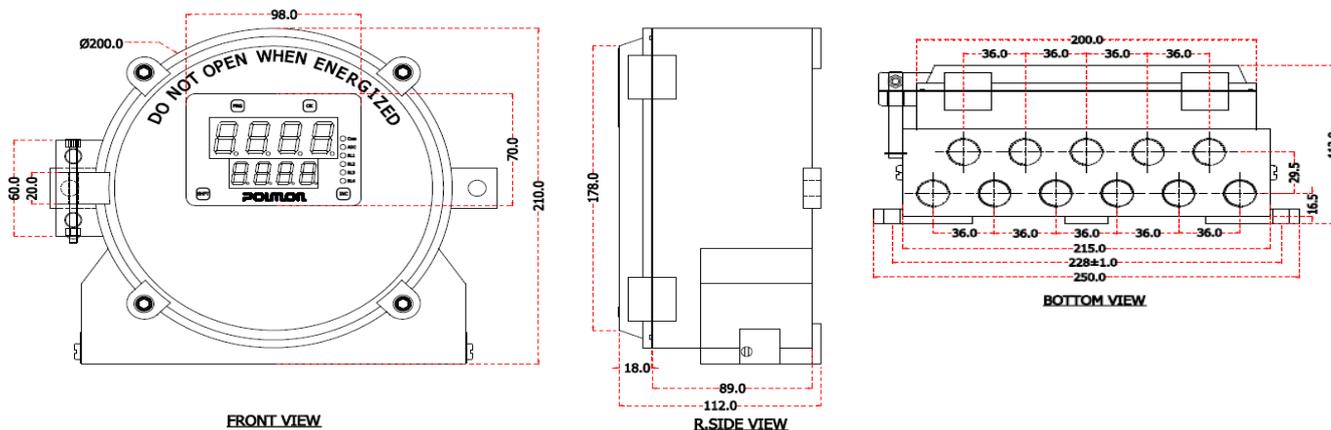
Technical				
Model No	DPI14-F-X-X-X-X-X-X			
No. of Channel	2			
Analog Input Type	RTD (Pt100 (DIN IEC 751 Std))/ mA (4-20) / 0-10V/ 0-1V (Field Configurable)			
Measuring Range, Accuracy and Resolution	Measuring Range	Resolution	Accuracy	
	RTD	-199.0 to 500.0°C	0.1	±0.1% of FSR
4-20mA/ 0-10V/ 0-1V		-1.999 to 9.999	0.001	0.1% of FSR
		-19.99 to 99.99	0.01	
		-199.9 to 999.9	0.1	
		-1999 to 9999	1	
Digital Input	Dual Dry Contact (Optional)			
Analog Output	Dual Analog Output 4-20mA (500 Ohms of Max load), Accuracy: ±0.05% of span (Optional)			
Digital Output	2 NO NC (Relays) / 4 NO NC (Relays)			
Calibration (Analog Input/ Analog Output)	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 MODBUS RTU			
Control Type	On/Off, Dual PID			
Control Modes, Control O/P & Control Type	Control Modes	Control Outputs	Control type	
	Heat/Cool	2 NO NC / 4 NO NC 230VAC, 2 Amp	On/ Off	
	Dead band			
Heat/Cool	4-20mA	PID		
Memory	Non volatile Flash memory for programming parameters			
Security	Password protected programming mode			

Physical	
Enclosure	Flame proof for Zone1, Zone2 Gas Gr.IIA, IIB, IIC
Material	Aluminium
Weight	4.0Kg (approx)
Dimensions (LxWxD)	200x210x112mm
Cable Entries	11 No's ¾" ET
Glands/ Dummies	Not Provided (Order separately)
Environmental	
Operating Temperature	10 to 50 °C
Humidity	10-95%RH, Non-Condensing

Ordering Information for DPI14							
DPI14	X	X	X	X	X	X	X
Model No	Enclosure Type	Analog Input	Digital Input	Analog output	Digital Output	Communication	Power Supply
DPI14	F – FLP	1 – *Dual (RTD/ 4-20mA/0-10V/0-1V)	0 – No	0 – No	1 – Relay 2No's	0 – No	1 – 230V AC
			1 – Dual	1 – Single 4-20mA	2 – Relay 4No's	1 – RS485-MODBUS RTU	2 – 24V AC/DC
				2 – Dual 4-20mA			

Note: * Specify the range for Analog Inputs

MECHANICAL DRAWING OF DPI14



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All specifications are subject to change without notice.
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