POLMON
Measure. Control. Automate.

DIGITAL PROCESS INDICATOR/CONTROLLER

DPI14C

Dual Channel	
	Capacitive Touch keys
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 Touch keys eliminates instrument opening in restricted area.

Features

- Flame Proof Enclosure for Zone1, Zone2 Gas Gr.IIA, IIB, IIC
- Touch keys operation
- 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
- 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 Architecture

Specifications

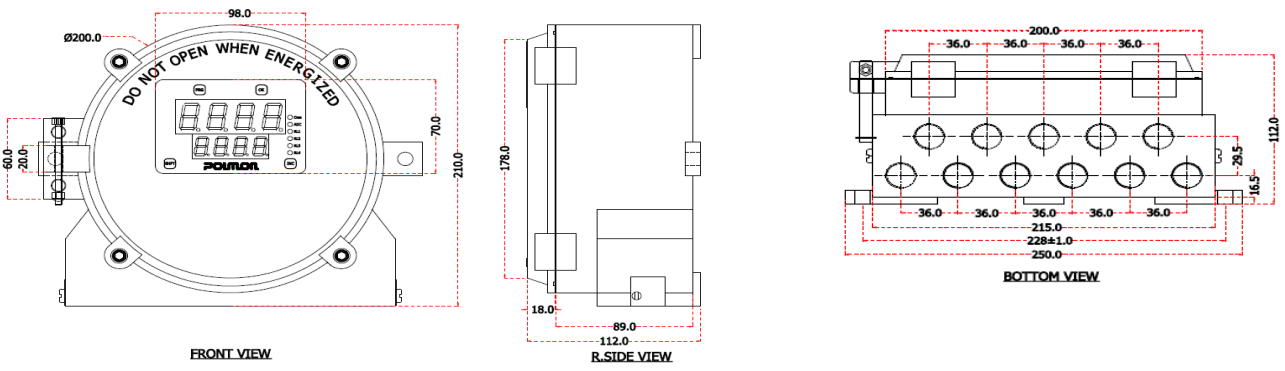
Technical			
Model No	DPI14C-F-X-X-X-X-X-X-X-X		
No. of Channel	2		
Analog Input Type	RTD (Pt100 (DIN IEC 751 Std))/ mA (4-20) / 0-10V/ 0-1V (Field Configurable)		
Measuring Range, Accuracy and Resolution	Measuring Range	Resolution	Accuracy
RTD	-199.0 to 500.0°C	0.1	±0.1% of FSR
4-20mA/ 0-10V/ 0-1V	-1.999 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) (Optional), Accuracy: ±0.05% of span		
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		
Keys	Capacitive touch keys		
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 DPI14C

DPI14C	X	X	X	X	X	X	X	X	X	X
Model No	*Enclosure Type*	*Analog Input*	*Digital Input*	*Analog output*	*Digital Output*	*Communication*	*Power Supply*	*Keys*	*Future Use*	*Future Use*
DPI14C	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 – Touch Keys	X	X
			1 – Dual	1 – Single 4-20mA	2 – Relay 4No's	1 – RS485-MODBUS RTU	2 – 24V AC/DC			
				2 – Dual 4-20mA						

*specify the input type and input range for certificate.

MECHANICAL DRAWING OF DPI14C



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