Measure. Control. Automate.

DIGITAL PROCESS INDICATOR   DPI15

| 3 Channel |
| Highly Accurate |
| Flame Proof |
| RS485 Modbus for Datalogging |
| Capacitive Touch Keys |

The POLMON "Digital Process Indicator" is designed to meet the solution for Reactor / Distillation Column Temperature monitoring and Data acquisition for 3 channels. Instrument is user friendly and easy to operate. Instrument Configuration and calibration with Capacitive touch keys eliminates instrument opening in restricted area.
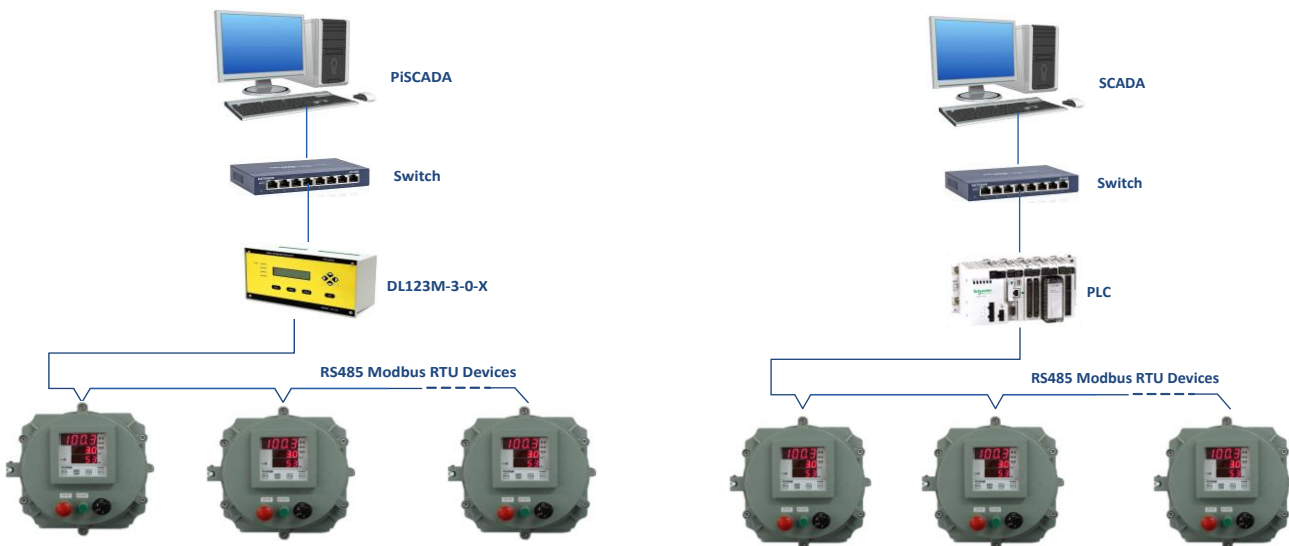
Features

- Flame Proof Enclosure for Zone1, Zone2 Gas Gr.IIA, IIB
- Analog input types RTD /4-20mA/0-10V
- RS485 MODBUS RTU
- Password security to prevent unauthorized access (reconfigurable by user)

- Capacitive Touch keys operation
- True 3-wire RTD with lead wire compensation
- Status Indication such as Sensor open and Communication failure
- VFD On/Off Push Buttons
- Potentiometer for RPM Control

Applications

- Reactor temperature
- Utility temperature
- Distillation Column Temperature
- VFD Control

Network Architecture

Specifications

Technical

Model No	DPI15-F-X-X-X-X-X-X
No. of Channel	3
Analog Input Type	RTD (Pt100 (DIN IEC 751 Std)) (Field Configurable) / 4-20mA /0-10V

Measuring Range, Accuracy and Resolution	Measuring Range	Resolution	Accuracy
RTD	-199.0 to 500.0°C	0.1	±0.05% of FSR
4-20mA /0-10V	-199.9 to 999.9	0.1	±0.1% of FSR
	-1999 to 9999	1	

Keypad	Capacitive Touch Keys
Calibration (Analog Input)	Zero & Span through keypad
Display	0.8″ 4 digit seven segment LED display for Channel1
	0.39″ 4 digit seven segment LED display for Channel2& 3
	3mm LED's for Hi & Lo status indication
Digital Outputs	4No's (C, NO, NC) (Optional)
Communication	RS485 MODBUS RTU
Security	Password protected programming mode

Power Supply

Input Supply	220V AC, 50 Hz, 10 VA

Physical

Enclosure	Flame proof for Zone1, Zone2 Gas Gr.IIA, IIB
Material	Aluminium
Weight	6.5Kg(Approx)
Dimensions (LxWxD)	270x270x168mm
Cable Entries	12 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 DPI15

DPI15	X	X	X	X	X	X	X	X
Model No.	Enclosure Type	Input Type 1	Input Type 2	Input Type 3	RPM Control Type	Communication	Output	Future Use
DPI15	F – FLP	# 1 – RTD/ 4-20mA/0-10V	# 1 – RTD/ 4-20mA/0-10V	# 1 – RTD/ 4-20mA/0-10V	0 – No	0 – No	1 – Relay (1C,NO,NC)	
				2 – NAMUR	1 – 8 Positions Rotary switch	1 – RS485 MODBUS RTU		
					2 – Potentiometer			

Note: # Specify the analog I/P type & Range

MECHANICAL DRAWING OF DPI15

FRONT VIEW

R.SIDE VIEW

12No's, 3/4" ET Gland Entries

BOTTOM VIEW