

Integrated RPM Control Module

DPI11-F



The POLMON "Integrated RPM Control" has been specially developed with integration of Temperature, RPM Measurement & RPM drive selection output to interface to VFD for agitator control in Pharmaceutical industry. It eliminates multiple devices mounting near the reactor which increases reliability and easy operation. Software Calibration eliminates instrument opening in restricted areas.

Features

- Fully differential input measurement
- Dual Display shows Process Value and set Value (Which may be user selectable)
- Status Indication like Sensor Open and Communication Failure
- Opto Isolated Analog Input and Communication Output
- Relay Output
- Analog input types RTD/ 4-20mA/ 0-10V/ 0-5V/0-1V (factory configurable)
- User friendly local software Calibration

- Error associated with 4-20mA eliminated with high speed digital communication
- Converts inputs signals into communicable digital data & transfers the same for logging purpose
- User configurable MODBUS interface for PLC/SCADA systems (Max 31 Devices without Repeater)
- Industrial standard high speed RS485 communication up to 38.4Kbps baud
- Non volatile Flash memory for storing program parameters

Applications

- Pharmaceutical Industries

Specifications

Technical				
Model No	DPI11F-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 / 0-5V (Factory 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 / 0-5V		-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	
Analog Output	4-20mA (500 Ohms of Max load), Accuracy: ±0.05% of span			
Digital Output	1 NO NC (Relays) (optional)			
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 (Default) / MODBUS RTU (user configurable)			
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	100 to 230V AC, 50Hz, 25W			
Physical				
Enclosure	Aluminium Flame Proof and Weather Proof Dual Chamber For Gas Gr.IIA, IIB Explosive atmospheres.			
Weight	5.5Kg (approx)			
Cable Entries	6 No's ¾" ET (or) ¾"UNF			
Glands/ Dummies	Not Provided (Order separately)			
Environmental				
Operating Temperature	10 to 50 °C			
Humidity	10-95%RH, Non-Condensing			

Ordering Information for DPI11F							
DPI11F	X	X	X	X	X	X	X
Model No	Enclosure Type	Input Type 1	Input Type 2	RPM Control Type	Communication	Output 1	Future Use
DPI11F	F – FLP	1 – RTD	1 – 4-20mA (Linear)**	0 – No	0 – No Comm	0 – No Relay Output	
		2 – 4-20mA (Linear)**	2 – 0-10V**	1 – 8 Positions Rotary Switch	1 – RS485 MODBUS/ PROPRIETARY	1 – Relay (1 NO-NC)	
		3- 0-10V **	3 – RTD	2 – Potentiometer	2 – RS485 MODBUS/ PROPRIETARY		

Note: ** Specify the Input Range for 4mA – XXXX, 20mA – XXXX and 0V – XXXX, 10V - XXXX

MECHANICAL DRAWING OF DPI11F

