

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 DPI11F-X-X-X-X-X-X Model No No. of Channel RTD (Pt100 (DIN IEC 751 Std))/ mA (4-20) / 0-10V / 0-1V / 0-5V (Factory Configurable) Analog Input Type Measuring Range, Accuracy and Resolution Resolution Accuracy Measuring Range -199.0 to 500.0°C ±0.1% of FSR RTD 0.1 -1.999 to 9.999 0.001 -19.99 to 99.99 0.01 4-20mA / 0-10V / 0-1V / 0-5V ±0.1% of FSR -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 0.8" 4 digit seven segment LED display 0.39" 4 digit seven segment LED Display Display 3mm LED's for status indication Scan Rate 1 Sec RS485 Proprietary (Default) / MODBUS RTU (user configurable) Communication On/Off Control Type Control Modes Control Outputs Control Modes & Control O/P Heat/Cool 1 NO/NC 230VAC, 2 Amp Dead band Non volatile Flash memory for programming parameters Memory Password protected programming mode Security Power Supply 100 to 230V AC, 50Hz, 25W Input Supply Physical Aluminium Flame Proof and Weather Proof Dual Chamber For Gas Gr.IIA, IIB Explosive atmospheres Enclosure Weight 5.5Kg (approx) 6 No's ¾" ET (or) ¾"UNF Cable Entries Glands/ Dummies Not Provided (Order separately) Environmental

Ordering Information for DPI11F							
DPI11F	Х	Х	Х	Х	X	X	Х
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 Relay Output	
		2 – 4-20mA (Linear)**	2 - 0-10V**	1 – 8 Positions Rotary Switch	1 – RS485 MODBUS/ PROPERITARY	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

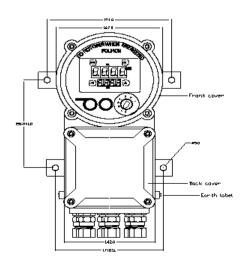
MECHANICAL DRAWING OF DPI11F

10 to 50 °C

10-95%RH, Non-Condensing

Operating Temperature

Humidity



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