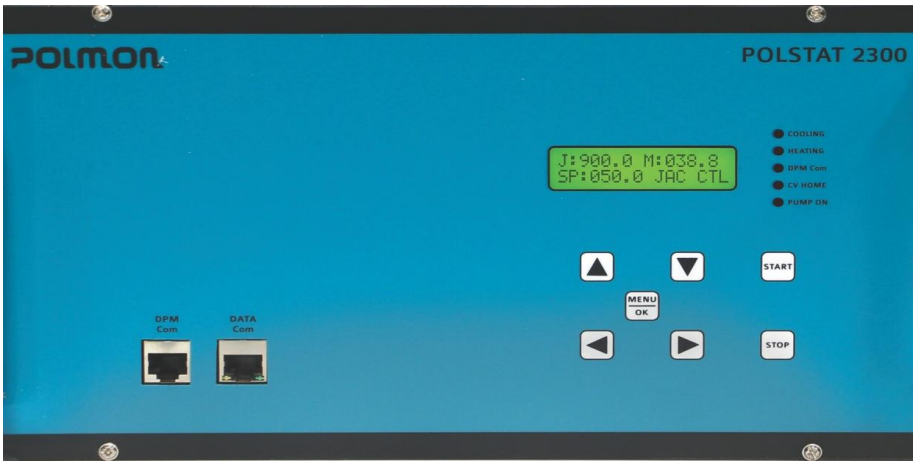
POLMON
Measure. Control. Automate.

POLSTAT ELECTRONIC MODULE

POLSTAT2300



POLSTAT2300E-X is an advanced Micro-controller based instrument that is to heat or cool the reactor mass with single fluid circulation in the reactor jacket for the desired temperature range.

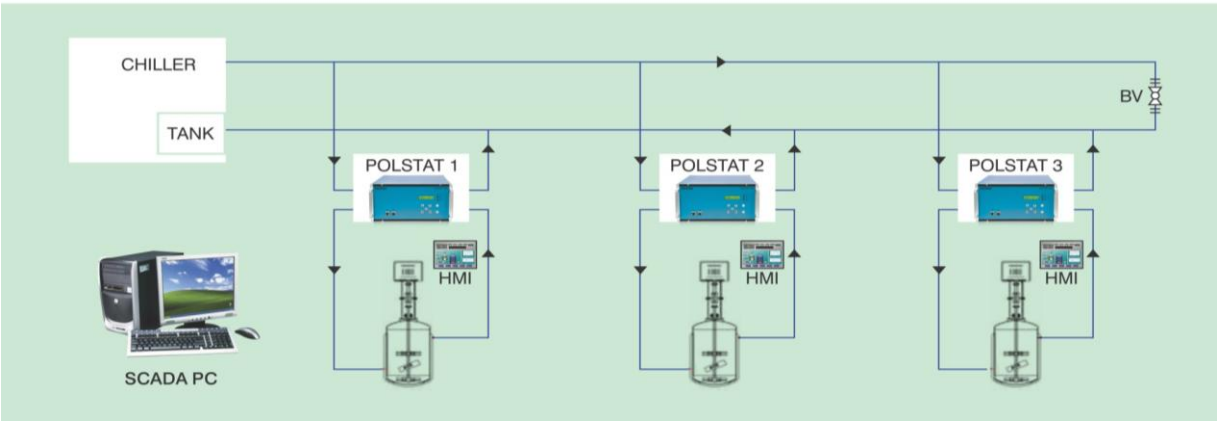
Features

- 8 Analog inputs, 4 Digital Inputs, 1 Analog Output
- Heater control(Triac/SSR) with series safety relay / contactor (230VAC Aux Supply)
- Pump control with series safety relay / contactor (230VAC Aux Supply)
- RS485 MODBUS interface for remote control module (e.g. HMI1003)
- Ethernet TCP/IP communication interface for SCADA system
- User-friendly local software calibration (Instrument) facility available

Applications

- Heating & cooling the vessels of size 250ml to 50liters

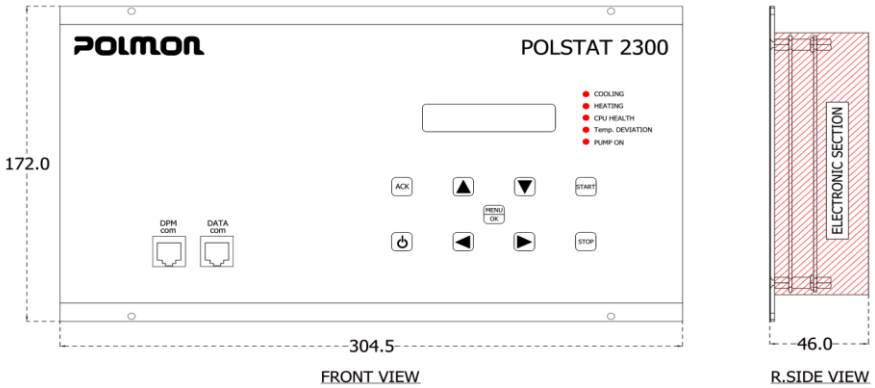
Network Architecture



Specifications

Technical			
Model No	POLSTAT2300E-X	POLSTAT2300E-1	POLSTAT2300E-2
No. of Channels	Analog Inputs: 8 Digital Inputs: 4 Digital Outputs: 4 Analog Output: 1		
Analog Input	3- Wire RTD: 4 {Module Termination (Jacket In & Out Sensor), Field termination (Mass & Spare Sensor)} 4-20mA: 3 {Field termination (Spare)} 2-10V DC: 1 {Module Termination (Control Valve Feedback)}		
Digital Input	24VDC Isolated Digital (Dry Contact): 4 Field Termination: 2 Module Termination: 2		
Digital Output	2 no´s Series Safety Relay for Pump & Heater (Module Termination for Contactor Use only) 2 no´s Potential free contact @ 3Amp (Field Termination)		
Analog Output	2-10 VDC (PI Control – Module Termination)		
Communication	RS-485 MODBUS (RJ45 Termination with 24VDC, 500mA for HMI1003) Ethernet TCP/IP Communication (for SCADA Integration)		
Measurement Range	3 wire RTD: -199.9°C to 500.0°C 4-20mA: 04.0 to 20.0mA 2-10V DC: 02.0 to 10.0v DC		
Input Accuracy	±0.1 % of FSR		
Resolution	0.1		
Heater Control	1KW @230VAC, with safety series relay protection on board	24VDC TTL output for External SSR with Safety Series Contactor output (230VAC Aux contact)	24VDC TTL output for External SSR with Safety Series Contactor output (230VAC Aux contact)
Pump Rating	3 Amps on board support with safety series relay OR For External Pump, Safety Series Contactor output (230VAC Aux contact)		
Calibration	Zero & Span, through keypad		
Display	16x2 LCD – To display Diagnosis messages / local operation		
Control Modes	Password protected programming mode		
I/P Impedance	mA : 100 Ω Voltage: > 1MΩ		
Power Supply			
Power Supply	230V AC, 50 Hz, 50W (Excluding Heater and Pump Power)		
Physical			
Dimensions (LxWxD)	304.5x172.0x46.0 mm		
Enclosure	With MS Face Plate		
Weight	2.1Kg (Approx.)		
Mounting	Panel Mount		
Environmental			
Operating Temperature	10 - 50°C		
Humidity	10-90%RH, Non-Condensing		

Mechanical Drawing of POLSAT2300E-X



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All specifications are subject to change without notice.
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