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ESM-9450

"Smart IO Module" Process Controller

ESM-XX50

8 steps profile control (Ramp & Soak) function and
start-hold-stop by using logic input module
For process value and process control
Retransmission feature
Detection of heater failure by using 0...5Adc CT
input module
Universal process input (TC, RTD, mVdc, Vdc, mAdc)
Bumpless transfer
Motorized valve control function
4 Digits process (PV) and 4 Digits set (SV) display
Programmable heating, cooling and alarm
functions for control outputs
Auto-tune and Self-tune PID
Dual or multi point calibration for dc Voltage/Current input
Configurable ON/OFF, P, PI, PD, and PID control forms

Share :

Features	Descriptions
Physical Features	
Dimensions	48 mm x 96 mm 86,5 mm
Protection Class	NEMA 4X (IP65 at front, IP20 at rear)
Installation	Fixed Installation
Storage / Operating Temperature	0...50ºC
Storage / Operating Humidity	90 % max. (None condensing)
Electrical Features	
Supply Voltage and Power	100-240 Vac (-15%,+10%) 50/60 Hz. 6 VA 24 Vac (-15%,+10%) 50/60 Hz. 6 VA 24 Vdc (-15%,+10%) 6 W
Sensor Inputs	Universal Input TC, RTD, Voltage/Current (dc) Selectable by configuration parameters L (DIN43710), J, K, R, T, S, B, E, N (IEC584.1) (ITS90) PT100 (IEC751) (ITS90) Selectable by configuration parameters 0-50 mV, 0-5 V, 0-10 V Selectable by configuration parameters 0-20 mA, 4-20 mA
Optional Sensor Inputs	EMI-400 Dijital Input Module EMI-410 0/4-20mA Current Input Module EMI-420 CT 0-5A Input Module EMI-430 TC veya 0.-50mVdc Input Module

	EMI-440 PT-100 Input Module EMI-450 0-10Vdc Input Module
Scale	
Accuracy	± 0,25% of full scale for Thermocouple ,Thermoresistance, and Voltage

Output

Relay Output	5A@250 Vac at resistive load
SSR Output	
Analogue Output	
Optional Outputs	EM0-400 Relay Output Module (3A@250V) EM0-410 SSR Output Module (20mA@18V) EM0-420 Dijital (Transistor) Output Module (40mA@18V) EM0-430 0/4-20mA Current Output Module

Control

Control Form	On / Off, P, PI, PD, PID
Reading Frequency	3 readings per second
Communication Protocols	MODBUS-RTU
Approvals	UL Recognized Component (File No : E 254103), GOST-R, CE