

ESM-4450

"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

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Features	Descriptions
Physical Features	
Dimensions	48 mm x 48 mm 116 mm
Protection Class	NEMA 4X (IP65 at front, IP20 at rear)
Installation	Fixed Installation
Storage / Operating Temperature	0...50°C
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