

ESM-4430

Process Control Device with Universal Input and Dual Set

ESM-XX30

Auto-tune and Self-tune PID

Dual or multi point calibration for dc Voltage/Current input

Bumpless transfer

4 Digits process (PV) and 4 Digits set (SV) display

Universal process input (TC, RTD, mVdc, Vdc, mA dc)

Configurable ON/OFF, P, PI, PD, and PID control forms

Manual/Automatic mode selection for control outputs

Programmable heating, cooling and alarm

functions for control outputs



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Features	Descriptions
Physical Features	
Dimensions	48 mm x 48 mm 87,5 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	Selectable by configuration parameters L (DIN43710), J, K, R, T, S, B, E, N (IEC584.1) (ITS90)
Optional Sensor Inputs	Selectable by configuration parameters 0-50 mV, 0-5 V, 0-10 V Selectable by configuration parameters 0-20 mA, 4-20 mA
Scale	
Accuracy	± 0,25% of full scale for Thermocouple ,Thermoresistance, and Voltage
Output	
Relay Output	5A@250 Vac at resistive load
SSR Output	17mA@25V Dc(Maximum)

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