

## ESM-9430

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, mAdc)

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
<b>Physical Features</b>	
<b>Dimensions</b>	48 mm x 96 mm 86,5 mm
<b>Protection Class</b>	NEMA 4X (IP65 at front, IP20 at rear)
<b>Installation</b>	Fixed Installation
<b>Storage / Operating Temperature</b>	0...50°C
<b>Storage / Operating Humidity</b>	90 % max. (None condensing)
<b>Electrical Features</b>	
<b>Supply Voltage and Power</b>	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
<b>Sensor Inputs</b>	Selectable by configuration parameters L (DIN43710), J, K, R, T, S, B, E, N (IEC584.1) (ITS90)
<b>Optional Sensor Inputs</b>	Selectable by configuration parameters 0-50 mV, 0-5 V, 0-10 V Selectable by configuration parameters 0-20 mA, 4-20 mA
<b>Scale</b>	
<b>Accuracy</b>	± 0,25% of full scale for Thermocouple ,Thermoresistance, and Voltage
<b>Output</b>	
<b>Relay Output</b>	5A@250 Vac at resistive load
<b>SSR Output</b>	17mA@25V Dc(Maximum)
<b>Analogue Output</b>	

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