

## ESM-4435

Universal Input, Dual Set PID Process Controller

Universal process input (TC, RTD, mVdc, Vdc, mA dc)  
 Dual or multi point calibration for dc Voltage/Current input  
 Bumpless transfer  
 Auto-tune ve Self-tune PID  
 4 Digits process (PV) and 4 Digits set (SV) display  
 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 48 mm 87,5 mm
<b>Protection Class</b>	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>	"J"Fe,Cu,Ni "K"Ni,Cr "R"Pt13%RhPt "S"Pt10%RhPt PT-100
<b>Optional Sensor Inputs</b>	
<b>Scale</b>	Fe CuNi -200°C...900°C NiCr -200°C...1300°C Pt13%RhPt 0°C...1700°C Pt10%RhPt 0°C...1700°C PT 100 -200°C,650°C
<b>Accuracy</b>	± 0,25% of full scale for Thermocouple ,Thermoresistance, and Voltage
<b>Output</b>	
<b>Relay Output</b>	(2x) 5A@250 Vac at resistive load

<b>SSR Output</b>	15mA@15V (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>	10 readings per second
<b>Communication Protocols</b>	
<b>Approvals</b>	CE