

ESM-4435

Universal Input, Dual Set PID Process Controller

Universal process input (TC, RTD, mVdc, Vdc, mAdc)
 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
Physical Features	
Dimensions	48 mm x 48 mm 87,5 mm
Protection Class	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	"J"Fe,Cu,Ni "K"Ni,Cr "R"Pt13%RhPt "S"Pt10%RhPt PT-100
Optional Sensor Inputs	
Scale	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
Accuracy	± 0,25% of full scale for thermocouple, thermoresistance and voltage,± 0,70% of full scale for current.
Output	

Relay Output	(2x) 5A@250 Vac at resistive load
SSR Output	15mA@15V (maximum)
Analogue Output	
Optional Outputs	
Control	
Control Form	On / Off, P, PI, PD, PID
Reading Frequency	10 readings per second
Communication Protocols	
Approvals	CE