

HDL

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EMKO ECO PID

EMKO Electronic provides a range of electronic products used in process-control applications. Their products include programmable multi function process-control instruments, counters, and time-relays.

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HDL

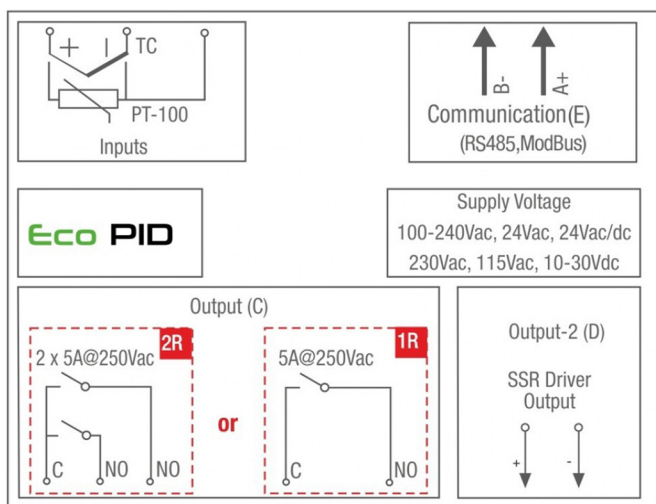


ECO PID

PID Temperature Control Unit

- High Resolution Sensitive PID control
- TC (J,K,R,S,T Input Types) and RTD inputs selectable by parameter
- Low Power Consumption, Energy saving and Environmentally Friendly with 2VA Saving and Recovery of user parameters
- Return to Factory Settings
- 3 Digits Process (PV) and 4 Digits Set (SV) display
- Programmable ON-OFF, P, PI, PD, PID control forms
- Adaptation of PID Coefficients to the system with Self-Tune operation (Step Response Tuning) and Auto-Tune (limitcycling-tuning)
- Selectable heating and cooling function
- RS-485 Modbus (RTU) communication (Optional)

Connection Diagram



Features	Descriptions
Physical Features	
Dimensions	48 mm x 48 mm 86,5 mm
Protection Class	IP65 at front, IP20 at rear
Installation	Fixed Installation
Storage / Operating Temperature	0°C...50°C
Storage / Operating Humidity	90 % max. (None condensing)
Electrical Features	
Supply Voltage and Power	100-240Vac 50/60Hz 115Vac (±%15) 50/60Hz 230Vac (±%15) 50/60Hz 24Vac/dc (±%15) 50/60Hz 24Vac (±%15) 50/60Hz 10-30Vdc
Sensor Inputs	TC, RTD Thermocouple (TC): J, K, R, S veT(IEC584.1)(ITS90) thermoresistance(RTD) PT-100 (IEC751)(ITS90)
Optional Sensor Inputs	
Scale	Fe CuNi -200°C,900°C NiCr Ni -200°C,1300°C Pt13%Rh 0°C,1700°C Pt10%Rh 0°C,1700°C Cu CuNi -200°C,400°C PT 100 -200°C,650°C PT 100 -199.9°C,650.0°C
Accuracy	Thermocouple (TC):(± 0.25% of full scale or ± 3°C, which one is greater) ±1 digit max. Thermoresistance (RTD):(± 0.25% of full scale or ± 2°C, which one is greater) ±1 digit
Output	
Relay Output	Relay (5A@250Vac at Resistive Load) Relay (5A@250V ac at Resistive Load) (Alarm Output)
SSR Output	Maximum 10 mA @ 12 Vdc
Analogue Output	
Optional Outputs	
Control	
Control Form	Programmable On / Off, P, PI, PD, and PID
Reading Frequency	10 readings per second
Communication Protocols	
Approvals	CE