



PID Temperature Control Unit

# Temperature Controllers

ECO PID

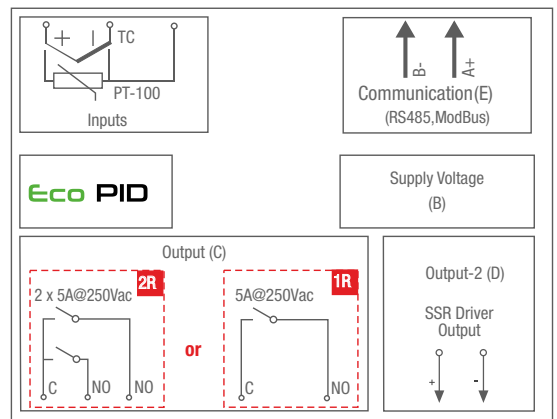


- ▶ High Resolution Sensitive PID control
- ▶ TC (J,K,R,S,T Input Types) and RTD inputs selectable by parameter
- ▶ Low Power Consumption, Energy saving and Environmentally Friendly with 2VA

- ▶ Saving and Recovery of user parameters
- ▶ RS-485 Modbus (RTU) communication option
- ▶ Return to Factory Settings

## Specifications

3 Digits Process (PV) and 4 Digits Set (SV) display  
 Process input ( TC, RTD )  
 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  
 Selectable temperature offset value  
 Operation type selection with hysteresis  
 Minimum pulling time adjustment for control outputs  
 Password protection for programming mode



## Technical Specification

**Accuracy:**  $\pm 0.25\%$  of full scale  
**Cold Junction Compensation:** Automatically  $\pm 0.1^\circ\text{C}/1^\circ\text{C}$   
**Line Compensation:** Maximum 10 Ohm  
**Sensor Break Protection:** Upscale  
**Sampling Cycle:** 0.1 second

