# CTM Series
# Process Controller

## General

Using industrial-grade CPU, strong anti-interference ability; Multiple input signal and output types are available; Single-loop, double-loop & programmable controllers are suitable for different applications. Communication, micro-printer interface and power feedback for the selection, wide scope of application, stable and reliable performance.

## Application

Can be applied together with temperature probe to control temperature of heating or cooling equipment, plastic machinery, oven, etc.; Can also cooperate with other probe used in the need for humidity, pressure, flow, liquid level control.

## Specifications

Power Supply: AC85~265V,50/60Hz

Accuracy: ±0.5%F.S.

Input Signal: Thermocouple (K, E, J, N, T, B, S)

RTD (Pt100, Pt1000, Cu50, Cu100)

Current (DC.0~20mA, DC.4~20mA)

Voltage (DC.0~250mV, DC.0~10V)

Resistor (0~80Ω, 0~400Ω)

Control Output: Relay contact, AC250V/3A

SSR Drive (Voltage pulse)

SCR Drive (zero-crossing)

DC.4~20mA, DC.0~10V

Alarm Output: Relay contact, AC250V/3A

（Max.3-alarm）

Alarm Mode: Absolute, Deviation, Range

Communication: RS485, Tinko Protocol

Aux Output: Micro-printer drive, DC24V feedback

Panel Size (mm): 48*48,72*72,48*96,96*96,160*80

## Single-loop Controller

- Fuzzy PID, control fast & smooth
- Can choose input signal preprocessing, such as root operation
- PV bias, PID self-tuning, manual control functions
- Thermocouple/RTD break, inverse or short alarm

## Dual-loop Controller

- Input signals can be different
- Dual-loop control separately
- Alarm outputs & signal inputs combination free
- PV bias, PID self-tuning, manual control functions
- Thermocouple/RTD break, inverse or short alarm

## Programmable Controller

- Max. 12sets application period (target, heating & hold time)
- Starting point can be chosen
- Process can be paused
- Repeat times can be set
- End alarm can be set