

Sinotimer MT-S

**Intelligent PID Temperature Control Relay
Output 50/60HZ Digital Temperature
Controller LCD Display SSR Relay K J E
Thermocouple**

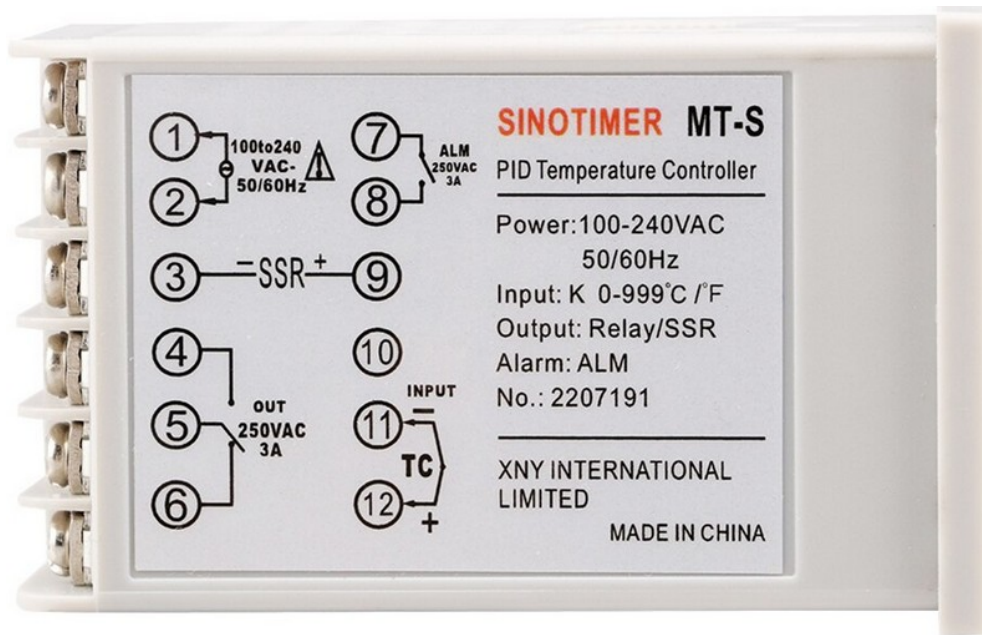
1 Sold

\$10.13 ~~\$28.13~~ 64% off

2% Off
Store Discount

Color: MT-S





output mode

Input mode

① Direct connection heat pipe
 ② Connect the AC contactor

RELAY output (RELAY)

Connected solid state relay

Solid state output (SSR)

RELAY output 5A/220V (contactor, relay, heating pipe)

SSR solid state output is connected to DC120V DC controlled AC solid state relay

Connect thermocouple

Indexing number: K,E,J,M (thermocouple series)

Intelligent Digital Temperature Controller Relay Output AC100-240V PID Thermostat LCD Display 50/60HZ
K J E Thermocouple with Alarm

Feature:

- 1. Relay output and solid-state output:** Relay output: contact capacity AC250V 3A (resistive load).
- 2. Large screen display:** Large screen digital display, clear reading.
- 3. Various sizes:** suitable for installation of various panels
- 4. Simple installation:** Simple installation and convenient use, accuracy measurement.
- 5. Material:** Excellent material and fine workmanship.

Specification:

Certification: CE

Origin: Mainland China

Model Number: Temperature Controller

Power supply voltage: AC100-240V 50/60HZ

Input: 4 types of thermocouples (K, J, E, N) are supported, and users can freely switch settings.

Other types need to be customized

Display: display of process value (PV), set value (SV), output (OUT), alarm (ALM), and self-tuning (AT) status

Display temperature unit: Celsius °C/Fahrenheit °F, the display unit can be switched and set

Control mode: (1) PID control (including NO/OFF, bit PID and continuous PID) (2) self-tuning control

Working mode: reaction (heating), positive (cooling), user can set

Accuracy: measurement accuracy: $\pm 0.5\%$ FS Sampling period: 0.5 seconds

Set value range: Set value (SV): same range (PV)

Proportional band (P): 0-full range (set as 0, NO/OFF control)

Integration time: (I): 0-999 seconds (no integration effect when 0 is set)

Differential time: (D): 0-999 seconds (no differential action when 0 is set)

Proportional period: 1-100 seconds

Hysteresis width of position control output: 1-100 °C (or other PV units)

Control output: a group of master control outputs,

and supports the following two output modes for users to choose.

Relay output: contact capacity AC250V 3A (resistive load)

Voltage pulse output: 12V (applicable to external solid state relay SSR)

Alarm function output: one group of output, 6 modes selection. Alarm output contact capacity AC250V 3A

Error reporting: **ooo** for broken thermocouple, **Err** for controller failure.

Other parameters:

Power consumption: $< 10\text{VA}$

Operating environment: no corrosive gas with temperature not exceeding 0-50 °C

and humidity not exceeding 30-80% RH

Product size: 48 * 48 * 75mm/1.9*1.9*2.7in (MT-S type)

Mounting hole size: 45 * 45mm/1.7*1.7in (MT-S type)

Shell material: ABS

Sinotimer MT-S Setup for PID control

120 Vac L to terminal 1

120 Vac N to terminal 2

Green control wire to terminal 5

Black control wire to terminal 6

Red (-) thermocouple wire to terminal 11

White (+) thermocouple wire to terminal 12

Initial changes from default settings to use J-type thermocouple, no AL1 alarm, and degrees F display.

MODE key + < key hold for 3 seconds

∅ displayed in **PV**

∧ key to change **SV** to **001**

MODE key

Sn displayed in **PV**

∧ key to change **SV** to **J** (J-type thermocouple)

MODE key press 6 times

AC1 displayed in **PV**

∨ key to change **SV** to **000** (without alarm)

MODE key press 3 times

Unit displayed in **PV**

∧ **key to change SV to 001** (° Fahrenheit)

MODE key hold for 3 seconds to exit

Set desired water temperature

MODE key

Su displayed in **PV**

∧ key to change **SV** to **100**

MODE key to exit

Sinotimer MT-S Setup for On-Off Set-point control (For defective controller)

120 Vac L to terminal 1

120 Vac N to terminal 2

Green control wire to terminal 7

Black control wire to terminal 8

Red (-) thermocouple wire to terminal 11

White (+) thermocouple wire to terminal 12

Initial changes from default settings to use J-type thermocouple, no AL1 alarm, and degrees F display.

MODE key + < key hold for 3 seconds

∅ displayed in **PV**

∧ key to change **SV** to **001**

MODE key

Sn displayed in **PV**

∧ key to change **SV** to **J** (J-type thermocouple)

MODE key press 6 times

AC1 displayed in **PV**

∨ key to change **SV** to **002** (activate alarm for deviation below set value)

MODE key press 2 times

AH1 displayed in **PV**

∧ key to change **SV** to **002** (2° hysteresis)

MODE key

Unit displayed in **PV**

∧ key to change **SV** to **001** (° Fahrenheit)

MODE key hold for 3 seconds to exit

Set desired water temperature

MODE key

Su displayed in **PV**

∧ key to change **SV** to **100**

MODE key to exit