



Scan to follow MEGMEET

# MEGMEET

ShenZhen SC: 002851

## Power Supply Product

- ☐ Communication PS
- ☐ Server Power Supply
- ☐ Electric Power Supply
- ☐ Medical Power Supply
- ☐ Industrial Microwave Power Supply
- ☐ Display Power Supply
- ☐ Photovoltaic (PV)
- ☐ Energy Storage System
- ☐ Charging Pile component
- ☐ Guide Rail Power Supply
- ☐ OA Power Supply
- ☐ Flat Panel Power Supply

## Industrial Automation

- ☐ Inverter
- ☐ Servo System
- ☒ Control System
- ☐ Sensor
- ☐ Internal Gear Pump
- ☐ Industrial IOT
- ☐ Elevator Integrated Controller
- ☐ Engineering Vehicle Controller

## New Energy Vehicle & Rail Transit

- ☐ Rail Transit Inverter
- ☐ Motor Controller
- ☐ PFC
- ☐ Electric Compressor
- ☐ Heating Managment System
- ☐ Rail Transit Air Conditioning Controller
- ☐ In-vehicle Integrated Charging System
- ☐ All-in-one High Voltage Integrated Driver

## Intelligent equipment

- ☐ Intelligent Digital Welding Machine
- ☐ Industrial Microwave Equipment
- ☐ Intelligent Submersible Screw Pump Oil Recovery System

## Smart Appliance Electronic Control

- ☐ Intelligent Sanitary Ware
- ☐ Space Heating
- ☐ Microwave Oven
- ☐ Electromagnetic Heating
- ☐ Cold Chain
- ☐ Heating Ventilation Air Conditioner (HVAC)
- ☐ Washing (Drying) Machine

## Precision Connection

- ☐ Flexible Flat Cable(FFC)
- ☐ FPC
- ☐ Coaxial Line
- ☐ Varnished Wire

## Shenzhen Megmeet Electrical Co.,Ltd

Add: 5th Floor, Block B, Unisplendour Information Harbor, Langshan Rd.,  
Science&Technology Park, Nanshan District, Shenzhen, 518057, China

Add: 34th Floor, High-tech Zone Union Tower, No.63 Xuefu Road,  
Nanshan District, Shenzhen, 518057, China

Megmeet reserves the right to modify the technical parameters and appearance of the products in this catalogue without prior advice to the users.

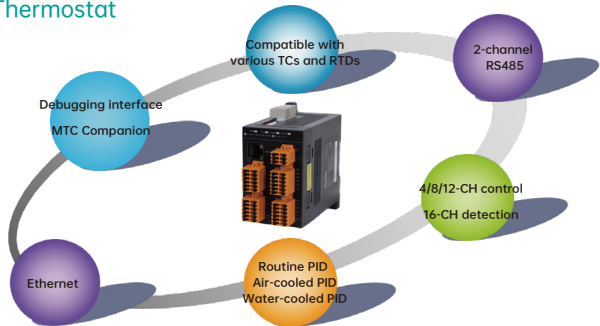
V.23.06

## Multi-channel Intelligent Thermostat



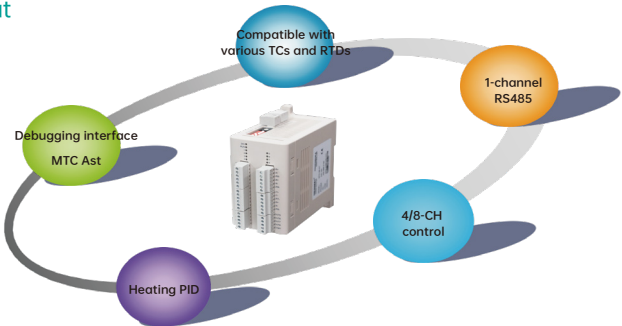
Multi-channel Intelligent Thermostat

MTCW/MTCV Series Thermostat



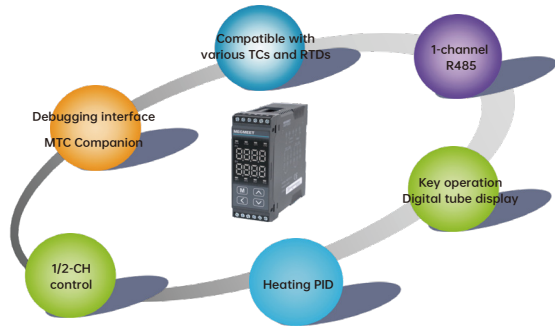
Model	Temperature detection channel	Temperature control output type	Alarm output type	Input type
MTCW Series(Ethernet, 2-channel RS485)				
MTCW-04-NTT	4-CH	Transistor(4-CH)	Transistor(4-CH), flag bit	TC, RTD
MTCW-04-NI	4-CH	Current(4-CH, 0-20mA or 4-20mA)	Flag bit	TC, RTD
MTCW-04-NV	4-CH	Voltage(4-CH, 0-1V, 0-5V, 0-10V, or 1-5V)	Flag bit	TC, RTD
MTCW-08-NN	8-CH	None	Flag bit	TC, RTD
MTCW-08-NI	8-CH	Current(8-CH, 0-20mA or 4-20mA)	Flag bit	TC, RTD
MTCW-08-NV	8-CH	Voltage(8-CH, 0-1V, 0-5V, 0-10V, or 1-5V)	Flag bit	TC, RTD
MTCW-08-NTT	8-CH	Transistor(8-CH)	Transistor(8-CH), flag bit	TC, RTD
MTCW-12-NT	12-CH	Transistor(12-CH)	Flag bit	TC, RTD
MTCW-16-NN	16-CH	None	Flag bit	TC, RTD
MTCW-08-CT	8-CH	Transistor(8-CH)	Flag bit	Current transformer detection(8-CH) TC, RTD
MTCW-08-NTD	8-CH	Transistor(8-CH heating & cooling)	None	TC, RTD
MTCV Series (Sampling channel isolation, No Ethernet, 1-CH RS485)				
MTCV-16-NT	16-CH	Transistor (16-CH)	Flag bit	TC
MTCV-08-NT	8-CH	Transistor (8-CH)	Flag bit	TC

MTC Series Thermostat



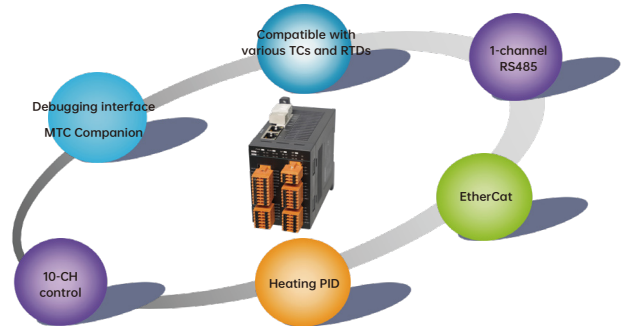
Model	Temperature detection channel	Temperature control output type	Alarm output type	Input type
MTC-04-NT	4-CH	Transistor (4-CH)	Flag bit	TC, RTD
MTC-08-NT	8-CH	Transistor (8-CH)	Flag bit	TC, RTD
MTC-04-NTT	4-CH	Transistor (4-CH)	Transistor (8-CH), flag bit	TC, RTD
MTC-04-NTR	4-CH	Transistor (4-CH), Relay (4-CH)	Relay (8-CH), flag bit	TC, RTD
MTC-04-NVT	4-CH	Transistor (4-CH) Current(8-CH, 0-20mA or 4-20mA) Voltage(8-CH, 0-1V, 0-5V, 0-10V or 1-5V)	Transistor (4-CH)	TC, RTD

MDT Series Thermostat



Model	Temperature detection channel	Temperature control output type	Alarm output type	Input type
MDT-01R-R	1-CH	Relay	Relay	RTD
MDT-01R-T	1-CH	Transistor	Transistor	RTD
MDT-01T-R	1-CH	Relay	Relay	TC
MDT-01T-T	1-CH	Transistor	Transistor	TC
MDT-02R-R	2-CH	Relay	Relay	RTD
MDT-02R-T	2-CH	Transistor	Transistor	RTD
MDT-02T-R	2-CH	Relay	Relay	TC
MDT-02T-T	2-CH	Transistor	Transistor	TC

MTCE Series Thermostat



Model	Temperature detection channel	Temperature control output type	Alarm output type	Input type
MTCE-10T-NT	10-CH	Transistor	Flag bit	TC
MTCE-10R-NT	10-CH	Transistor	Flag bit	RTD

## Temperature Control Assistant

MTC Companion/ MTC Ast

### Parameter configuration

Simple and intuitive data visualization for engineers to set the thermostat parameters as required

Parameter Name	Unit	Value	Unit	Value	Unit	Value	Unit	Value	Unit	Value
Set Point	°C	150	°C	150	°C	150	°C	150	°C	150
Control Mode		1		1		1		1		1
Control Loop		1		1		1		1		1
Control Type		1		1		1		1		1
Control Action		1		1		1		1		1
Control Range		1		1		1		1		1
Control Output		1		1		1		1		1
Control Error		1		1		1		1		1
Control Limit		1		1		1		1		1
Control Status		1		1		1		1		1

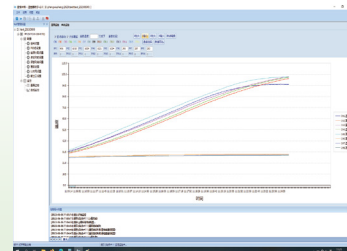
### Table monitoring

Check the temperature control status of each channel, monitor the measured value, heating and cooling output, etc. in real time

Channel	Set Point	Measured Value	Heating Output	Cooling Output	Status
1	150	145	100	0	Heating
2	150	145	100	0	Heating
3	150	145	100	0	Heating
4	150	145	100	0	Heating
5	150	145	100	0	Heating
6	150	145	100	0	Heating
7	150	145	100	0	Heating
8	150	145	100	0	Heating
9	150	145	100	0	Heating
10	150	145	100	0	Heating

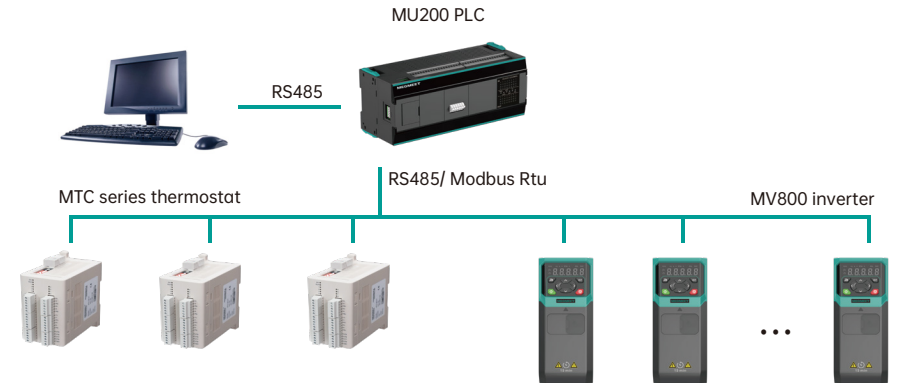
### Curve monitoring

Monitor the temperature change curve of each channel for engineers to adjust PID parameters according to the curve



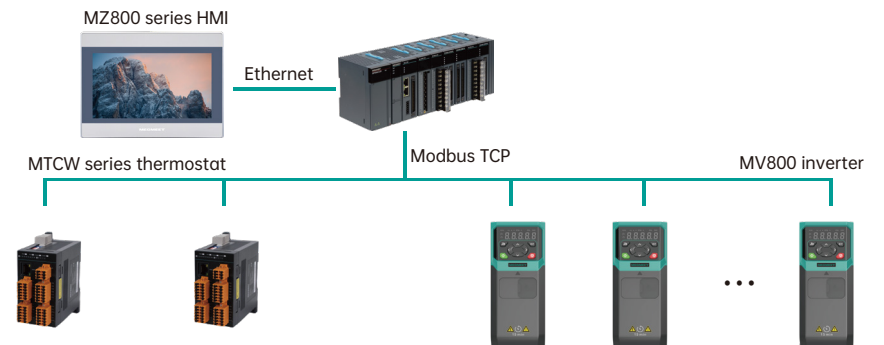
## Application Case

### Reflow Soldering



In electronic manufacturing, the reflow soldering equipment fixes the components on various boards to the circuit board that has been pasted with the components by heating air or nitrogen to a sufficiently high temperature, so that the solders on both sides of the components melt and bond with the main board. MTC series thermostat, can achieve the multi-temperature zone control with a maximum accuracy of  $\pm 0.5^{\circ}\text{C}$  by the PID parameters self-tuning function.

### Extruder



The extruder relies on the pressure and shear force generated by screw rotation to fully plasticize and evenly mix the melted materials after heating and then form through the mold outlet. There are water cooling and air cooling, single screw and twin screw, of which water-cooling twin screw technical requirements are the highest. The MTCW series thermostat supports air cooling/water cooling dual-PID algorithm, which perfectly realizes the temperature control needs of heating and cooling combination, with a maximum accuracy of  $\pm 1^{\circ}\text{C}$ .