

**SHENZHEN MEGMEET ELECTRICAL CO., LTD.**

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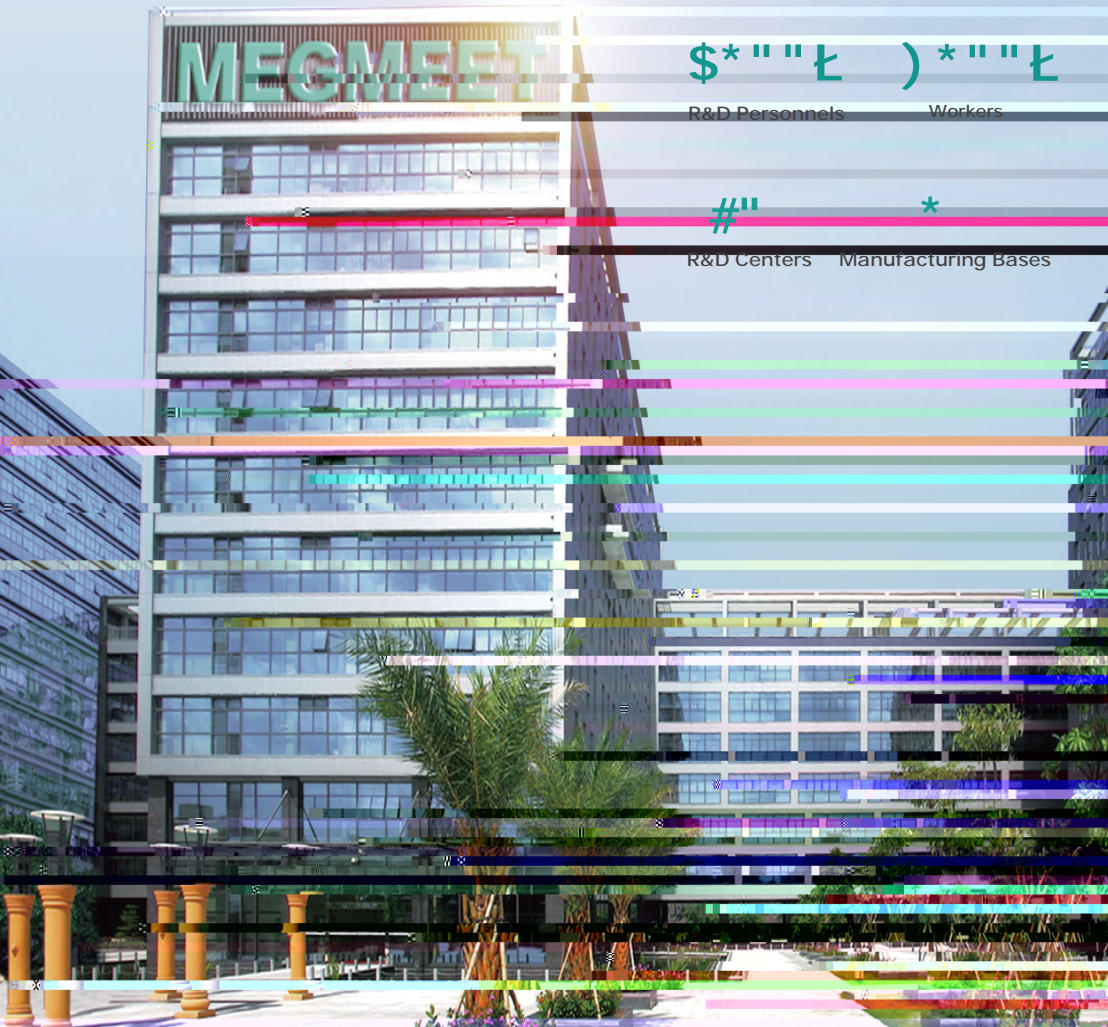
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# MEGMEET

Shenzhen Megmeet Electrical Co., Ltd.(Stock Code:002851) is a one-stop solution provider for the R&D, production, sales and services of hardware and software in electrical automation field, highlighting in power electronics and automatic control echnology. Company's main business covers six parts: power supply products, industrial automation, new energy vehicle& rail transit, intelligent equipment, smart appliance electronic control and precision connection.

Our company has established a strong platform of R&D, manufacturing, marketing and service with more than 2800 R&D personnel and a total of more than 7800 employees. We have established R&D centers in Shenzhen City, Changsha City, Xi'an City, Wuhan City, Zhuzhou City, Hangzhou City, Taizhou City and Chengdu City; overseas research institutes in the United States, Germany, and Sweden; manufacturing centers in Zhuzhou City, Dongguan City, Heyuan City, Taizhou City, and Yiwu City; overseas factories in Thailand and India; overseas marketing station in the United States, Japan, Korea, Southeast Asia, India, Germany, Poland, Romania, Turkey, Sweden to provide quality service resources.

MEGMEET is committed to helping people achieve a more efficient use of electricity, creating a cleaner living environment, continuously improving production efficiency and creating a better life for human beings. Our company aspires to become a global first-class product and solution provider in the field of electrical control and energy saving.



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# MTC/MTCW/MTCV Series

## Series

### Product Overview

MTC/MTCW/MTCV series products are multi-channel and high-precision temperature controllers, which are suitable for various occasions of temperature control. Its main features are compatible with TC and RTD, high measurement accuracy; high integration (on module supports up to 12 channels of temperature control and 16 channels of measurement), space saving, easy data exchange for remote monitoring, and high cost performance.

### Product Feature

- Dedicated software** Provide special software - MtcCompanion
- Dual-PID function** Heating & cooling dual-PID control function, 14 alarms like upper and lower limits, deviation, etc
- High precision** Intelligent self-tuning and multi-stage temperature setting functions to achieve high-precision temperature control
- Multi-way control** Intelligent multi-channel temperature control to centralized data management
- Easy exchange** Data exchange easily between thermostat and PLC, thermostat and HMI, thermostat and computer through Ethernet and serial port



### Model Specification

| Item                | Description  |  |
|---------------------|--|--|
| Power supply        | 24VDC -15% ~ 20%   |  |
| Signal input        | Input type   | Thermocouple K J E N T R B For all channel   |
|                     |  | Thermal resistance Pt100 JPt100 Cu100 Ni120 For all channel                                |
|                     | Precision  | Thermocouple 0.2% Full scale + cold compensation Thermal resistance 0.3% Full scale        |
|                     | Sampling cycle   | 25ms/channel 100ms/8 channels 100ms/4 channels   |
| Control output      | Output form  | Transistor output (SSR drive output), relay output, current output, voltage output         |
|                     | Control action   | Manual, ON / OFF, single PID, heating & cooling PID, position proportional PID             |
| Alarm output        | Alarm form   | 14 alarms, such as upper and lower limit alarm, deviation alarm and so on.                 |
|                     | Output form  | Transistor and relay output (output state can be directly controlled by writing registers) |
| IO input            | Output channel   | 8 channels   |
|                     | Input form   | Transistor input   |
| IO input            | Input channel  | 4 channels   |
|                     | Control cycle  | 0.1s - 10s or 1s - 100s  |
| Acquisition channel | 4 channels and 8 channels  |  |
| Isolation           | Exist between power and communication, power and channel, communication and channel, (MTCV)channel and channel   |  |
| Communication port  | MTC/MTCV: One isolated RS485 serial port; support MODBUS slave and MCBUS slave protocol<br>MTCW: One isolated + one non-isolated RS485 serial port, one Ethernet port; support MODBUS slave protocol |  |
| Generals            | Ambient temperature  | Working: -20 ~ 60 °C, storage: -40 ~ 70 °C   |
|                     | Ambient humidity   | Working: 10 ~ 90% RH (no condensation), keeping: 5 ~ 95% RH (no condensation)              |
|                     | Altitude   | Below 2000m  |
|                     | Protection level   | IP20   |
| C & S               | Conform to IEC/EN 61326-1 For use in industrial locations UL61010-1 CE UL  |  |

### Product Model

#### MTC series

| Model      | Acquisition channel | Temperature control output   | Alarm output               | 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 (8-CH)   | Relay(8-CH), flag bit      | TC, RTD    |
| MTC-04-NVT | 4-CH                | Transistor (4-CH)<br>Current(8-CH 0-20mA or 4-20mA)<br>Voltage(8-CH 0-1V 0-5V 0-10V or 1-5V) | Transistor (4-CH)          | TC, RTD    |

#### MTCW series (Ethernet 2\*RS485)

| Model       | Acquisition channel | Temperature control output              | Alarm output                | Input type                            |
|-------------|---------------------|---|-----------------------------|---------------------------------------|
| 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                | -                                       | 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               | -                                       | Flag bit                    | TC, RTD                               |
| MTCW-08-CT  | 8-CH                | Transistor (8-CH)                       | Flag bit                    | Current transformer (8-CH)<br>TC, RTD |
| MTCW-08-NTD | 8-CH                | Transistor (8-CH heating, 8-CH cooling) | -                           | TC, RTD                               |

#### MTCV series (Channel isolation RS485)

| Model      | Acquisition channel | Temperature control output | Alarm output | Input type |
|------------|---------------------|----------------------------|--------------|------------|
| MTCV-16-NT | 16-CH               | Transistor (16-CH)         | Flag bit     | TC, RTD    |
| MTCV-08-NT | 8-CH                | Transistor (8-CH)          | Flag bit     | TC, RTD    |






# MQT

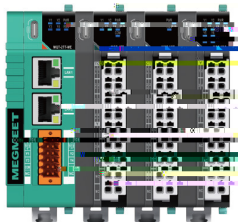
## Series

### Product Overview

MQT series product, a new generation cascade temperature controller, is composed of communication module, temperature control module and expansion module, realizing high-precision temperature control by matching modules flexibly and integrating internal intelligent PID algorithm; it has the advantages of cascade, high precision, multi-point temperature control, background upgrade, free combination, small size and so on.

### Product Feature

-  **High precision**      Measure precision: full scale of  $\pm 0.15\%$
-  **High performance**      0.1s sampling cycle and perfect PID self-tuning function, to achieve multi-channel cascade control
-  **Strong function**      A single module can operate PID control and simple logic operation, and monitor analog value
-  **Simple installation**      PUSH IN terminal, different terminals connection can be realized only need to gently push into
-  **Complete module**      Digital I/O, analog I/O, CT input, temperature input, communication and others



### Product Model

### Model Specification

| Item                | Description  |
|---------------------|--|
| Power supply        | 24VDC -15% ~ 20%   |
| Signal input        | Thermocouple K J E N T R B For all channel   |
|                     | Thermal resistance Pt100 JPt100 Cu100 Ni120 For all channel  |
|                     | Thermocouple 0.15% Full scale + cold compensation  |
|                     | Thermal resistance 0.3% Full scale   |
| Control output      | 25ms/channel 100ms/8 channels 100ms/4 channels   |
|                     | Transistor output (SSR drive output), relay output, current output, voltage output                             |
| Alarm output        | Manual, ON / OFF, single PID, heating & cooling PID, position proportional PID                                 |
|                     | 14 alarms, such as upper and lower limit alarm, deviation alarm and so on.                                     |
| Digital input       | 14 digital inputs, 1 transistor and relay output (output state can be directly controlled by writing register) |
| Control cycle       |  |
| Acquisition channel |  |
| Isolation           |  |
| Communication port  | RS485/Mdbus-TCP/EtherNet/EtherCAT/Profinet   |
| Generals            |  |
| C & S               |  |

**MTCE**

Series



