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

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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.

06..) R&D Personnels

56..) Workers

/. R&D Centers

6 Manufacturing Bases

# Am l rc l rq


KRA-KRAU-KRAT Qcpgcq

01/02

KOR Qcpgcq

03/04

KRAC Qcpgcq

05

KA?Q Qcpgcq

06

KBR Qcpgcq

07

?nnjga_rgm l q

08

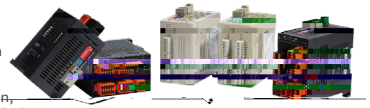
# MTC/MTCW/MTCV

Series

## Product Overview

MTC/MTCW/MTCV s ri es products ar e multi-chann el and high-pr ecision t emp eratur e controll ers, which ar e suitabl e for various occasions of t emp eratur e control. Its main f eatur e is compatibl e with TC and RTD, high m easur e accuracy; high int egration (on e modul e supports up to 12 chann els of t emp eratur e control and 16 chann els of m easur em ent), spac e saving, easy data exchang e r emot e monitoring, and high cost p erformanc e

## Product Feature



**Dedicated software** — Provid e sp ecial softwar e- MtcCompanion

**Dual-PID function** — H eating&cooling dual-PID control function, 14 alarms lik e upp er and low er limits, d eviation, etc

**High precision** — Int ellig ent s elf-tuning and multi-stag et emp eratur e s etting functions to achi ev e high-pr ecision t emp eratur e control

**Multi-way control** — Int egrat ed multi-chann el t emp eratur e control to c entraliz e data manag em ent

**Easy exchange** — Data exchang e easily b etw een th ermostat and PLC, th ermostat and HMI, th ermostat and comput er through Eth ern et and s erial 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 |
| | Output form | Transistor output (SSR drive output), relay output, current output, voltage output |
| Control output | Control action | Manual, ON / OFF, single PID, heating & cooling PID, position proportional PID |
| | Alarm form | 14 alarms, such as upper and lower limit alarm, deviation alarm and so on. |
| Alarm output | Output form | Transistor and relay output (output state can be directly controlled by writing registers) |
| | Output channel | 8 channels |
| IO input | Input form | Transistor 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

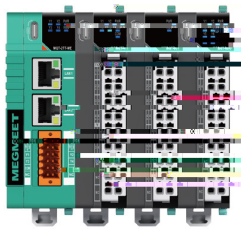
| Model | Acquisition channel | Temperature control output | Alarm output | Input type |
|---|---|---|---|---|
| MTCV-16-NT | 16-CH | Transistor (16-CH) | Flag bit | TC, RTD |
| MTCV-08-NT | 8-CH | Transistor (8-CH) | Flag bit | TC, RTD |

# 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

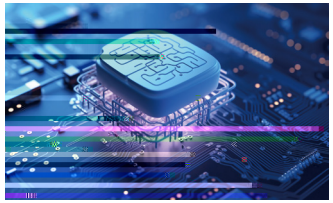
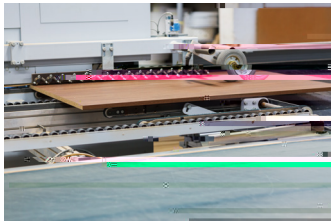
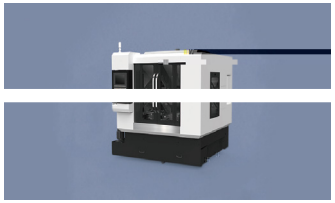



- **High precision** — Measure precision: full scale of ± 0.15 %
- **High performance** — 0.1s sampling cycle and perfect PID self-tuning function, to achieve multi-channel cascade control
- **Strong function** — A single module can operate PID control and simple logic operation, and monitor analog value
- **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

## 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 |
| | | 25ms/channel 100ms/8 channels 100ms/4 channels |
| Control output | | Transistor output (SSR drive output), relay output, current output, voltage output |
| | | Manual, ON / OFF, single PID, heating & cooling PID, position proportional PID |
| Alarm output | | 14 alarms, such as upper and lower limit alarm, deviation alarm and so on. |
| | | Transistor and relay output (output state can be directly controlled by writing register |
| | | |
| Digital input | | |
| | | |
| Control cycle | | |
| Acquisition channel | | |
| Isolation | | |
| Communication port | RS485/Modbus-TCP/EtherNet/EtherCAT/Profinet | |
| Generals | | |
| | | |
| | | |
| C & S | | |

## Product Model

# MTCE

Series