MEG EET

## Power Solutions

- ☐ Telecom Power
- Server Power
- ☐ Electric Power
- ☐ Medical Power
- ☐ Display Power
- ☐ LED Power
- ☐ Laser Power
- ☐ OA Power
- ☐ Flat Panel Power
- ☐ Bi-directional Inverters for Portable Power
- ☐ Solar & BESS & EV Charging Solution

■

- ☐ Encoder
- ☐ Variable Frequency Drive
- ☐ Internal Gear Pump

- ☐ Power Electronic Unit(2-in-1, 3-in-1)
- ☐ E-Compressor
- ☐ TV EDU
- ☐ Motor Control Unit
- ☐ Construction Machinery Controller
- ☐ Intelligent Active Hydraulic Suspension (i-AHS)
- ☐ Railway A/C Controller
- ☐ Railway VFD
- ☐ Light Electric Vehicle Controller
- ☐ Thermal Mgmt. System

## Home Appliance Control Solutions

- ☐ Residential A/C Controller
- ☐ Commercial A/C Controller
- ☐ Heat Pump Controller
- ☐ Vehicle A/C Controller
- ☐ Solar A/C Controller
- ☐ Mini Compressor Controller
- ☐ Refrigerator Controller
- ☐ Washer/Dryer Controller
- ☐ Residential Microwave
- ☐ Industrial Microwave
- ☐ Smart Bidet
- ☐ RF Thawing System

## Precision Connection

- ☐ FFC
- ☐ FPC
- ☐ Coaxial Cable
- ☐ CCS
- ☐ Litz Wire
- ☐ Peek Wire


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MEGMEET

Power Supply Product | Industrial Automation | Smart Appliance Electronic Control

New Energy Vehicle&Rail Transit | Intelligent Equipment | Precision Connection

# TEMPERATURE CONTROLLER

## SELECTION BROCHURE



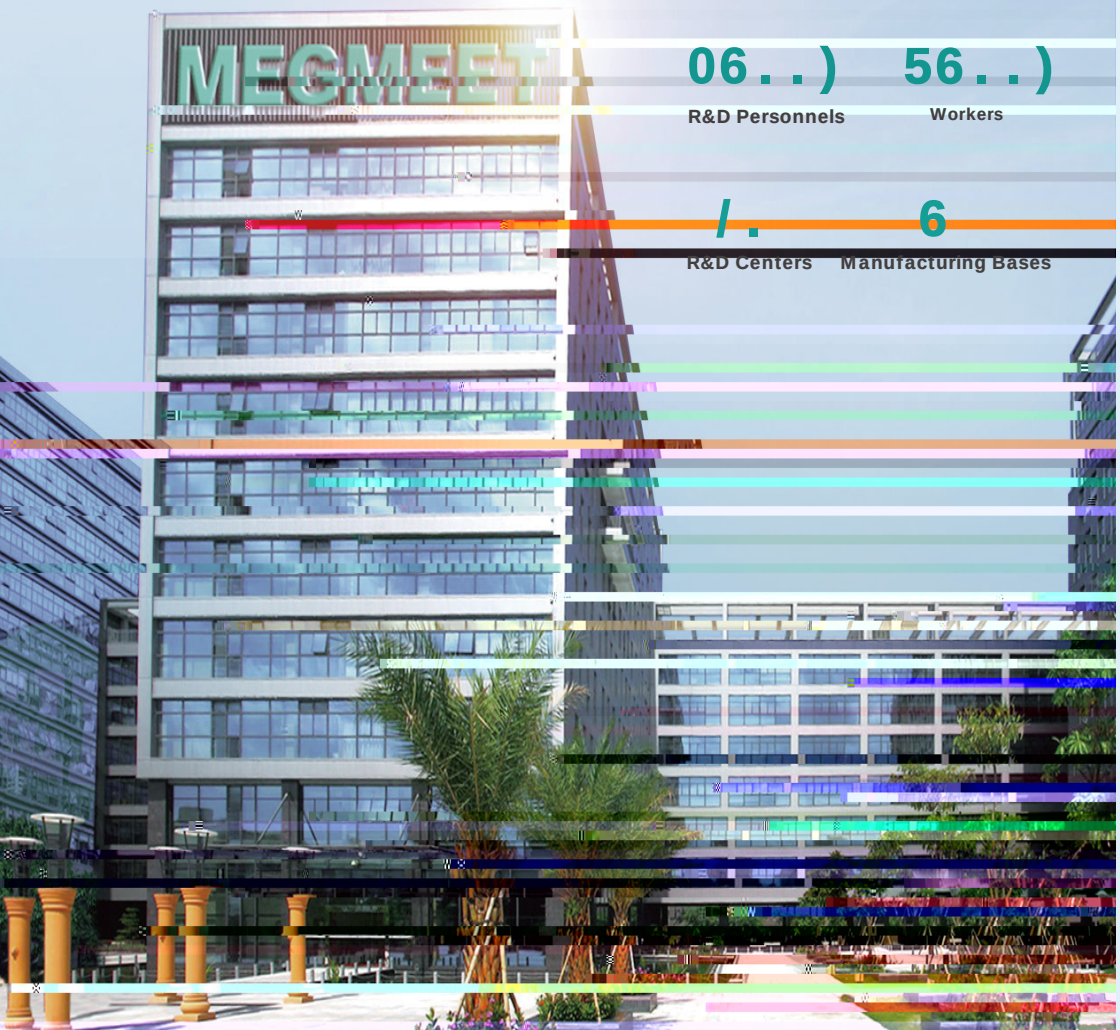
Global Leading Solution Provider in Electrical Automation

## 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.




# 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 emulti-chann d and high-pr cision t mp ratur econtroll rs, which ar esuitabl e for various occasions of t mp ratur econtrol. Its main f atur eis compatibl ewith TC and RTD, high m asur eaccuracy; high int gration (on emodul esupports up to 12 chann ds of t mp ratur econtrol and 16 chann ds of m asur m nt), spac esaving, easy data xchang e r mot emonitoring, and high cost p rformanc e

## Product Feature



- **Dedicated software** — Provid esp cial softwar e- MtcCompanion
- **Dual-PID function** — H ating&cooling dual-PID control function, 14 alarms lik eupp r and low r limits, d viation, tc
- **High precision** — Int llig nt s lf-tuning and multi-stag et mp ratur es tting functions to achi v e high-pr cision t mp ratur econtrol
- **Multi-way control** — Int grat d multi-chann d t mp ratur econtrol to c ntraliz edata manag m nt
- **Easy exchange** — Data xchang e easily b tw en th rmostat and PLC, th rmostat and HMI, th rmostat and comput r through Eth rn t and s rial 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

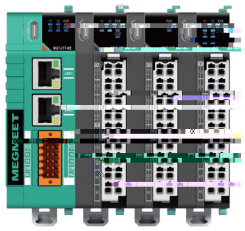
| Model | Acquisition channel | Temperature control output | Alarm output | Input type |
|---|---|---|---|---|
| MTCV-16-NT | 16-CH | Transistor (16-CH) | Flag bit | TC, RTD |
| MTCV-08-NT | 8-CH | Transistor (8-CH) | Flag bit | TC, RTD |

# 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

