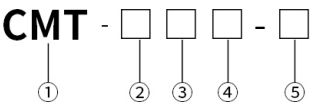




- 概述 Overview
- CMT温控模组是将CME温控模块和CMG通讯模块进行组合，形成多模块联合通讯控制的组合体。
 - 一个CMG通讯模块最多可以添加4个CME温控模块，组成最多16个控温通道，由通讯模块进行协调工作，在通讯和控制逻辑上可将其视为一个整体。
 - 温控模组支持标准modbus-TCP和modbus-RTU通讯总线协议。
 - CMT temperature control module is a combination of CME temperature control module and CMG communication module to form a combination of multi-module joint communication control.
 - A CMG communication module can add up to 4 CME temperature control modules to form up to 16 temperature control channels, which are coordinated by the communication module, and can be regarded as a whole in communication and control logic.
 - The temperature control module supports standard modbus-TCP and modbus-RTU communication bus protocols.



选型说明 Model Designation



序号 No	项目 Item	代号 Code	说明 Description
①	产品系列 Product series	CMT	温控模组组合 Temperature control module combination
②	工作电压 Operating voltage	2	AC/DC24V 50/60Hz
		4	AC100-240V 50/60Hz
		A-Z	A-Z字母组合，代表其它或定制电源电压 A-Z letter combinations, representing other or custom supply voltages
③	温度输入 Temperature input	K	热电偶 (K、E、J、L、T、R、S) Thermocouple (K, E, J, L, T, R, S)
		P	热电阻输入 (PT100、Cu50) Thermal resistance input (PT100, Cu50)
		A	4-20mA输入 4-20 mA Input
		S	热电偶 (K、E、J、L、T、R、S)、热电阻输入 (PT100、Cu50) Thermocouple (K, E, J, L, T, R, S), thermal resistance input (PT100, Cu50)
④	控制输出 Control output	1	继电器 Relay
		2	SSR输出 SSR output
		A	0-20mA、4-20mA
		B	0-5V、1-5V
		A-Z	A-Z字母组合，代表其它或定制控制输出模式 A-Z letter combinations, representing other or custom control output modes
⑤	组合形式 Combined form	T1	一个通讯模块+一个4通道温控模块 One communication module + one 4-channel temperature control module
		T2	一个通讯模块+两个4通道温控模块 One communication module + two 4-channel temperature control modules
		T3	一个通讯模块+三个4通道温控模块 One communication module + three 4-channel temperature control modules
		T4	一个通讯模块+四个4通道温控模块 One communication module + four 4-channel temperature control modules

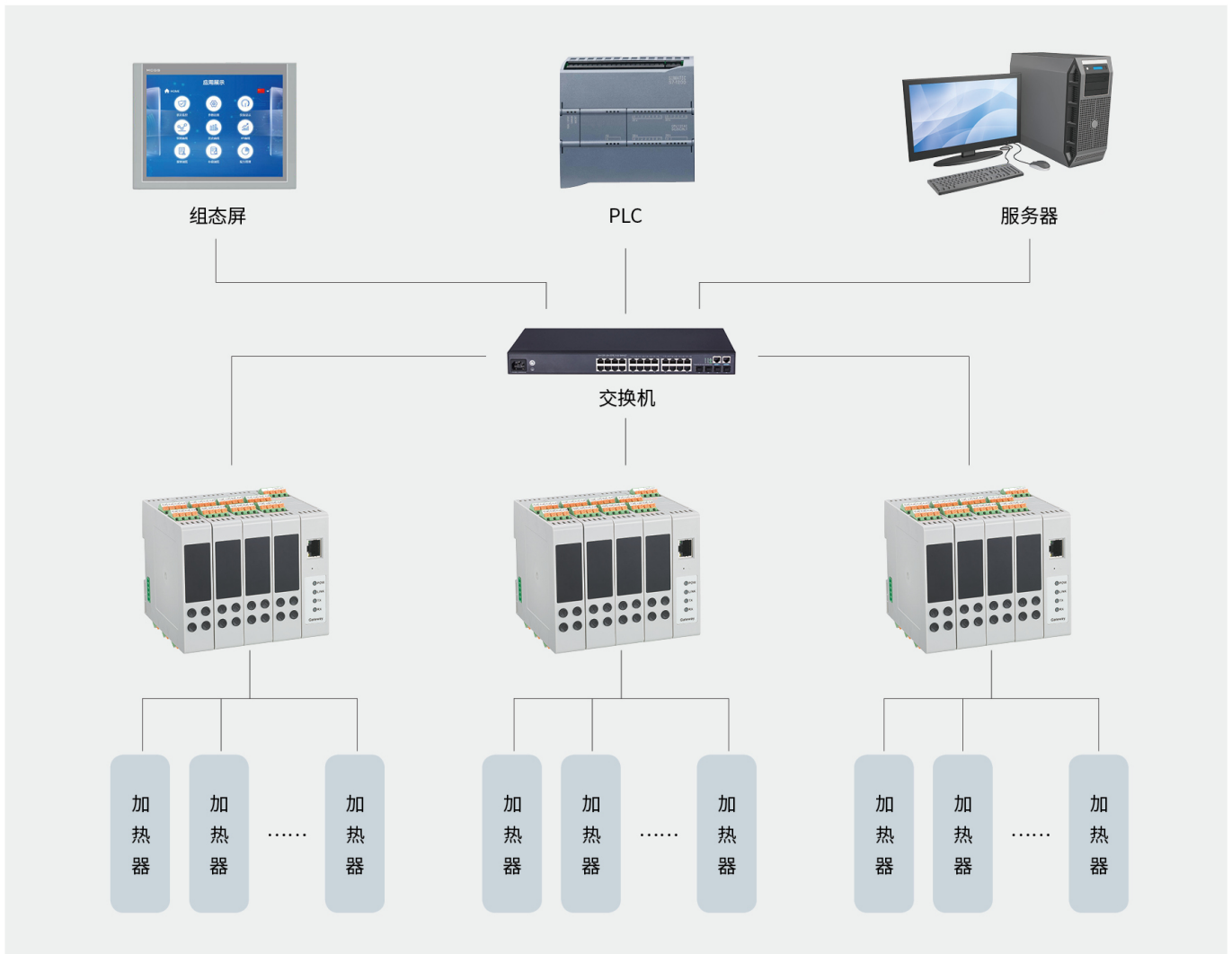
常用型号 Common Model

组合代码 Combined code	组成部件 Component	功能 Feature
CMT-4S2-T2	CMG-TC-4NT2通讯模块+CME4-4S2/3T21温控模块 +CME4-4S2-3T22温控模块 CMG-TC-4NT2 communication module +CME4-4S2/3T21 temperature control module +CME4-4S2-3T22 Temperature control module	AC100-240V供电，合计8个控温通道，温度输入热电偶(K/E/J/L/T/R/S) 热电阻(PT100/Cu50)，控制输出固态SSR AC100-240V power supply, total 8 temperature control channels, temperature input thermocouple (K/E/J/L/T/R/S) Thermal resistance (PT100/Cu50), control output solid state SSR
CMT-4S2-T4	CMG-TC-4NT4通讯模块+CME4-4S2/3T41温控模块+CME4- 4S2/3T42温控模块+CME4-4S2/3T43温控模块+CME4-4S2/3T44 温控模块 CMG-TC-4NT4 communication module +CME4-4S2/3T41 Temperature control module +CME4-4S2/3T42 Temperature control module +CME4-4S2/3T43 Temperature control module +CME4-4S2/3T44 Temperature control module	AC100-240V供电，合计16个控温通道，温度输入热电偶(K/E/J/L/T/R/S) 热电阻(PT100/Cu50)，控制输出固态SSR AC100-240V power supply, total 16 temperature control channels, temperature input thermocouple (K/E/J/L/T/R/S) Thermal resistance (PT100/Cu50), control output solid state SSR
CMT-2S2-T2	CMG-TC-2NT2通讯模块+CME4-2S2/3T21温控模块+CME4- 2S2/3T22温控模块 CMG-TC-2NT2 communication module +CME4-2S2/3T21 Temperature control module +CME4-2S2/3T22 temperature control module	AC/DC 24V供电，合计8个控温通道，温度输入热电偶(K/E/J/L/T/R/S) 热电阻(PT100/Cu50)，控制输出固态SSR AC/DC 24V power supply, total 8 temperature control channels, temperature input thermocouple (K/E/J/L/T/R/S) Thermal resistance (PT100/Cu50), control output solid state SSR
CMT-2S2-T4	CMG-TC-2NT4通讯模块+CME4-2S2/3T41温控模块+CME4- 2S2/3T42温控模块+CME4-2S2/3T43温控模块+CME4-2S2/3T44 温控模块 CMG-TC-2NT4 communication module +CME4-2S2/3T41 Temperature control module +CME4-2S2/3T42 Temperature control module +CME4-2S2/3T43 Temperature control module +CME4-2S2/3T44 Temperature control module	AC/DC 24V供电，合计16个控温通道，温度输入热电偶(K/E/J/L/T/R/S) 热电阻(PT100/Cu50)，控制输出固态SSR AC/DC 24V power supply, total 16 temperature control channels, temperature input thermocouple (K/E/J/L/T/R/S) Thermal resistance (PT100/Cu50), control output solid state SSR

共有 T1~T4 四种组合方式 There are four combination modes from T1 to T4

组合方式 Combination mode	组合结构 Composite structure	描述 Description
T1组合 T1 combination	一个通讯模块+一个温控模块 One communication module + one temperature control module	通讯模块和温控模块可以组合成为4通道的温控模组，多个通道独立控温，支持 modbus-TCP和modbus-RTU通讯 Communication module and temperature control module can be combined into a 4-channel temperature control module, multiple channels independent temperature control, support modbus-TCP and modbus-RTU communication
T2组合 T2 combination	一个通讯模块+两个温控模块 One communication module + two temperature control modules	通讯模块和温控模块可以组合成为8通道的温控模组，多个通道独立控温，支持 modbus-TCP和modbus-RTU通讯 Communication module and temperature control module can be combined into 8-channel temperature control module, multiple channels independent temperature control, support modbus-TCP and modbus-RTU communication
T3组合 T3 combination	一个通讯模块+三个温控模块 One communication module + three temperature control modules	通讯模块和温控模块可以组合成为12通道的温控模组，多个通道独立控温，支持 modbus-TCP和modbus-RTU通讯 Communication module and temperature control module can be combined into a 12-channel temperature control module, multiple channels independent temperature control, support modbus-TCP and modbus-RTU communication
T4组合 T4 combination	一个通讯模块+四个温控模块 One communication module + four temperature control modules	通讯模块和温控模块可以组合成为16通道的温控模组，多个通道独立控温，支持 modbus-TCP和modbus-RTU通讯 Communication module and temperature control module can be combined into a 16-channel temperature control module, multiple channels independent temperature control, support modbus-TCP and modbus-RTU communication

通讯结构 Communication structure



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- 要求极高安全性的应用场合，涉及人身安全与财产的情况。
- 苛刻条件、严酷环境的应用场合，包括室外、存在化学污染、电磁、振动或冲击影响的环境。
- 有火灾或爆炸风险的应用场合，包括存在易燃易爆性气体、强酸强碱化学品等物质的环境。
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- Applications requiring very high security, situations involving personal safety and property.
- Applications in harsh conditions, harsh environments, including outdoor, chemical contamination, electromagnetic, vibration or shock effects.
- Applications where there is a risk of fire or explosion, including environments where flammable and explosive gases, strong acids and alkali chemicals are present.
- Applications involving military use and aerospace projects.