

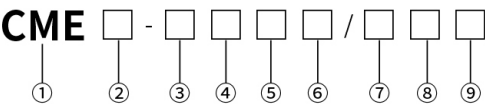


概述 Overview

- 温控模块是我公司推出的用于加热、制冷控制的专用设备，具有多路加热通道分别控制的功能，具有集成度高、控温准确、体积小、安装方便等特点。广泛适用于包装机械、热流道、生产线等需进行温度加热控制的场合。
- The modular temperature control instrument is a special equipment for heating and cooling control launched by our company. It has the function of controlling multiple heating channels separately, and has the characteristics of high integration, accurate temperature control, compact size, and easy installation. It is widely used in packaging machinery, hot runner, production line and other occasions where temperature heating control is required.



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	CME	标准模块式温控器 Standard modular thermostat
		CMH	高精度型模块式温控器 High precision modular temperature controller
②	通道数量 Number of channels	1	一通道 Single channel
		2	二通道 Dual channel
		4	四通道 Four channels
③	电源电压 Voltage supply	2	AC/DC24V 50/60Hz
		4	AC100-240V 50/60Hz
		A-Z	A-Z字母组合，代表其他或定制电源电压 A-Z letter combinations, representing other or custom power supply voltages
④	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 4-20mA 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)
⑤	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，代表其他或定制控制输出模式 A-Z letter combination represents other or custom control output modes
⑥	通讯 Communication	N	无通讯输出 No communication output
		R	RS485通讯 RS485 communication
⑦	组合快接接口 Combination quick connection interface	无 None	无快接 No quick connection
		1	左侧快接输入 Quick connect input on the left
		2	右侧快接输出 Quick connect output on the right
		3	左右快接输入输出 Left and right quick connection input and output

⑧	模组组合方式 Module combination mode	无 None	非组合 Non-combination
		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
⑨	组合部件 Combination unit	无 None	非组合 Non-combination
		1	组合中的温控模块1 Temperature control module 1 in the combination
		2	组合中的温控模块2 Temperature control module 2 in the combination
		3	组合中的温控模块3 Temperature control module 3 in the combination
		4	组合中的温控模块4 Temperature control module 4 in the combination

特点 Features

- 具有多通道温度控制功能，一个模组相当于多个温控表，各通道控温参数各自独立互不影响；
- 多路智能控温算法，可实现4路精确PID温度控制，可广泛适用于多种加热模型；
- 具有RS485通讯接口，标准modbus RTU通讯协议，易于PLC或组态屏进行通讯连接，可在线监控温度数据，由上位设备进行实时控制；
- 模块化结构设计，可选多模组拼接方式，将多个温控模组通过侧面快插口进行拼接使用，实现通道数翻倍效果，多个4路模组可拼接成为8路、16路以及更多控温通道；
- 产品集成度高、体积小，导轨式安装方式适合现场控制柜、配电柜等安装场所；
- With multi-channel temperature control function, one module is equivalent to multiple temperature control meters, and the temperature control parameters of each channel are independent and do not affect each other.;
- Multi-channel intelligent temperature control algorithm, can achieve 4-channel accurate PID temperature control, can be widely used in a variety of heating models;
- With RS485 communication interface, standard modbus RTU communication protocol, easy to communicate with PLC or configuration screen, online monitoring of temperature data, real-time control by the host equipment;
- Modular structure design, optional multi-module splicing method, multiple temperature control modules are spliced through the side quick socket to achieve the effect of doubling the number of channels, multiple 4-channel modules can be spliced into 8-channel, 16-channel and more temperature control channels;
- The product has a high degree of integration and compact size. The rail-type installation method is suitable for installation places such as on-site control cabinets and power distribution cabinets.;

技术参数 Technical Parameters

额定电压 Rated voltage	100-240VAC, 50/60Hz
电源功耗 Power consumption	≤5VA
工作环境 Working environment	环境温度: 0°C -50°C, 相对湿度: 35%-85% (无冷凝) Ambient temperature: 0°C -50°C, Relative humidity: 35%-85% (no condensation)
存储温度 Storage temperature	-25°C -65°C (避免结冰或结露) -25°C -65°C (avoid freezing or condensation)
分辨率 Resolution	1°C, 0.1°C (可调) 1°C, 0.1°C (adjustable)
接线方式 Wiring method	接线端子 Terminal block
检测精度 Detection accuracy	±0.5%FS
内存保护 Memory protection	非易失性内存 Non-volatile memory
继电器输出 (若控制输出为继电器) Relay output (If the control output is a relay)	继电器接点 AC220V/DC30V, 3A Relay contact AC220V/DC30V, 3A
逻辑电平输出 (若控制输出为 SSR) Relay logic level output (If the control output is SSR)	ON 时: DC12V; OFF 时: DC0.5V 以下; 最大电流: 30mA When ON: DC12V; when OFF: below DC0.5V; Maximum current: 30mA
热电偶输入类型 Thermocouple input type	K、E、J、L、T、R、S
热电阻输入类型 Thermal resistance input type	PT100、Cu50

国际认证规格 International Certification Specifications

认证规格 Certification specifications	规格 Specifications	文件No. Document
CE	EN 61010-1	请咨询昌得代表处 Please consult the CNTD Representative Office

操控面板功能说明Control Panel Function Description



输入分度号类型选择 Enter the Indexing Number Type Selection

热电偶 Thermocouple	输入类型 Input type	符号 Symbol	测温范围 Temperature measurement range
	K	inPX	-60-1200
	E	inPE	-60-950
	J	inPJ	-60-1150
	L	inPL	0-800
	T	inPt	-60-350
	R	inPr	0-1700
热电阻 Thermal resistance	S	inPS	0-1600
	PT100	Pt	-60-600
	CU	cu	-60-150

常用型号 Common Model

产品型号 Product model	通道数量 Number of channels	温度输入 Temperature input	控制输出形式 Control output form	工作电压 Operating voltage	通讯功能 Communication function
CME1-4K2R	一通道控温 One channel temperature control	热电偶(K/E/J/L/T/R/S) Thermocouple (K/E/J/L/T/R/S)	固态SSR输出 Solid state SSR output	AC100-240V	RS485
CME2-4K2R	二通道控温 Two-channel temperature control				
CME4-4K2R	四通道控温 Four-channel temperature control				
CME1-4S2R	一通道控温 One channel temperature control	热电偶(K/E/J/L/T/R/S) 热电阻(PT100/Cu50) Thermocouple (K/E/J/L/T/R/S) Thermal resistance (PT100/Cu50)			
CME2-4S2R	二通道控温 Two-channel temperature control				
CME4-4S2R	四通道控温 Four-channel temperature control				
CME1-2S2R	一通道控温 One channel temperature control			AC/DC 24V	
CME2-2S2R	二通道控温 Two-channel temperature control				
CME4-2S2R	四通道控温 Four-channel temperature control				

注：以上为常用型号参考，未在表格内的参考选型说明。
Note: The above is a common model reference, not in the table reference selection description.

使用注意事项 Using Precautions

本公司产品是作为工业产品而设计生产，严格遵守工业产品标准。我司明确声明，除非经过特殊设计并得到我司明确书面确认，我司产品不适用于以下应用场合：

- 要求极高可靠性的应用场合，包括核能、燃气、电力等要求长期稳定运行的系统。
- 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。
- 涉及军工用途、航天航空项目的应用场合。

The company’s products are designed and produced as industrial products, in strict compliance with industrial product standards. We expressly declare that, unless specifically designed and expressly confirmed by us in writing, our products are not intended for the following applications:

- Applications that require high reliability, including nuclear, gas, electric and other systems that require long-term stable operation.
- 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.



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