

## C-MT013

# Multi-Parameter Controller

The C-MT013 Multi-Parameter Controller is a high-performance water quality detection and control device that integrates multi-parameter measurement, data storage, intelligent output, and remote communication. It features a 4-inch ultra-clear capacitive touch screen, offering intuitive and convenient operation. With an IP65 protection level, it can adapt to harsh industrial field conditions. The device supports the connection of multiple sensors, multi-level authority management, massive data storage, and various communication output methods. It is widely applied in water quality on-line monitoring and process control in fields such as sewage treatment, tap water supply, electronic electroplating, and printing and dyeing, providing accurate, stable, and reliable solutions for water quality monitoring.



## ► Specification Parameters

Parameter	Specification
Display Screen	78*78mm 4-inch Ultra HD Capacitive Touch Screen, Full Touch Operation
Language Support	Chinese / English (Default), Support for Multiple Languages and Minority Language Customization
Power Supply	AC 220V±10%, 50/60Hz; Optional DC 12V-36V
Device Dimensions	Instrument Body: 100*105*150mm; Cutout Size: 93*93mm
Installation Method	Panel Mount & Wall Mount Dual Mode
Device Weight	0.5Kg
Protection Level	IP65
Power Consumption	<5W
Communication Output	2-channel RS485 Output, Modbus-RTU Protocol Supported; Wireless Data Transmission Supported
Analog Output	2-channel 4-20mA Standard Current Output, Independent Channel Configuration
Relay Output	2-channel Normally Open Contacts, Rated Load 5A 250VAC
Data Storage	Default 100,000 Measurement Data Records, Customizable Expansion to 1,000,000 Records
Measurement Environment	Operating Temperature: 0-65°C; Humidity: ≤ 95% RH (Non-condensing)
Sensor Access	Support for Multiple Types of Water Quality Sensors such as pH, Turbidity, Conductivity, Temperature, with Temperature Compensation

## ► Performance Features

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- ⊙ **Convenient operation and user - friendly interaction:** Equipped with a 4 - inch capacitive LCD touch screen, it supports full - touch operation with a simple and intuitive interface. It also supports personalized display settings such as screen brightness adjustment and automatic screen - off.

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- ⊙ **Multi - language adaptation for global application:** By default, it supports Chinese and English, and can be customized with minority languages and other languages from various countries to meet the needs of users in different regions.

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- ⊙ **Massive storage and traceable data:** By default, it can store 100,000 measurement data records, which can be expanded to 1,000,000. It supports querying and exporting data by filtering according to time and items. It records system logs and alarm logs to achieve full - process traceability.

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- ⊙ **Strong protection and adaptability to harsh working conditions:** With a high protection level of IP65, it can operate stably in industrial sites with a temperature range of 0 - 65°C and high humidity (no condensation). It has strong corrosion - resistance and anti - interference capabilities.

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- ⊙ **Abundant outputs and strong linkage:** It is equipped with 2 channels of RS485, 2 channels of 4 - 20mA, and 2 channels of relay outputs, which can be seamlessly connected to devices such as host computers, PLCs, audible and visual alarms, and solenoid valves to achieve data transmission, on - site control, and alarm linkage.

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- ⊙ **Multi - level authority management for safe operation:** It supports the division of three - level authorities, namely administrators, operators, and guests, effectively preventing unauthorized personnel from modifying key parameters and ensuring the stable operation of the device.

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- ⊙ **Accurate calibration and reliable measurement:** It supports single - point/multi - point calibration of sensors such as conductivity and pH. It is equipped with an automatic temperature compensation function and can finely configure sensor parameters to ensure measurement accuracy.

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- ⊙ **Flexible installation and easy wiring:** It supports two installation methods, namely panel - type and wall - mounted. The sensors, power supply, and output signals use special plug - in wiring with clear markings to avoid wiring errors.

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- ⊙ **Deep IoT integration:** It supports remote device control, remote device diagnosis, remote device cleaning, and sensor calibration, realizing cloud - based and intelligent management.

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