


# Datasheet

# Water Quality Multi-parameter

# SUP-MDX300

Supmea®

Committed to process automation solutions

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## Datasheet

# Water quality multi-parameter
# SUP-MDX300

The SUP-MDX300 is an advanced intelligent online multi-parameter controller that supports up to 8 sensors. The instrument can be connected with a variety of water quality detection sensors (such as pH, ORP, conductivity, dissolved oxygen, residual chlorine, turbidity, temperature, ammonia nitrogen, COD, etc., depending on customer needs), which can be used to calibrate the sensor, and can also monitor the water quality in real time,with data storage function. Besides, the display can show Normal/Error statuses for each channel. Three device statuses (Normal/Error/ Calibrating) can be output via RS485.

## Applications

- Sewage
- Tap water
- Environmental protection
- Surface water monitoring
- Deepwell water monitoring
- Seawater monitoring




**Water quality multi-parameter**

## Features

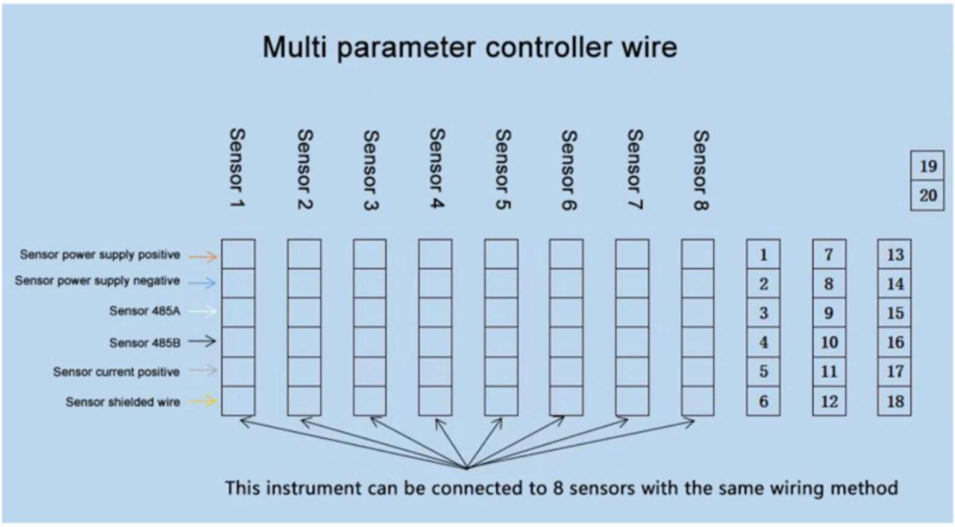
- Supports maximum 8 sensors for 9 parameters, cutting costs and facilitating future sensor additions.
- IP65 protection suits complex environments.
- Three device statuses (Normal/Error/Calibrating) can be output via RS485
- Enhanced anti-interference with power & signal grounding.
- High-precision output circuit.
- Opto-isolated RS485 communication.

## Principle

The controller collects process parameters such pH, ORP, conductivity, dissolved oxygen, residual chlorine, turbidity, temperature, ammonia nitrogen, COD... The acquired sensor signals are processed and converted into digital signals for operation and processing by the controller. The controller analyzes and calculates the input signals according to the pre-set control algorithm to display measurement values and output them via RS485 MODBUS RTU protocol.

| Parameters | |
|---|---|
| Measured variables | pH, ORP, EC, DO, Temp, Chlorine, TSS, COD, NH4, etc |
| Output signal | RS485 MODBUS |
| Display | 7 inch touch screen |
| Installation | Wall mounted |
| Temperature range | (0~60)℃ |
| Function | Data storage function<br>Calibration function<br>Three-status function |
| Power supply | AC220V |
| Shell material | ABS |
| Download | With USB interface |
| Protection grade | IP65 |
| Dimension | 185x230x110 mm |

## Wiring




Wiring diagram

## Instrument Introduction




1. Display interface
2. USB connector
3. Power cord
4. Connect to matching sensor (pH,Turbidity)