MUC-200 Split Multi-Parameter Online Analyzer

Introduction

The multi-parameter transmitter can realize online monitoring of multiple different parameters at the same time through optional sensors according to different needs of customers, including temperature / PH / ORP / conductance / dissolved oxygen / turbidity / sludge concentration / chlorophyll / blue-green algae / UVCOD / UVNO3 / ion ammonia nitrogen / transparency / residual chlorine and other parameters. The transmitter software interface parameter display realizes self-adaptation,and has data storage and export.



Features

- Up to 7 sensors could be connected to improve integration and reduce operation and maintenance costs.
- Universal, all digital sensor interfaces are common, analog sensors can be configured according to different sensor types
- Quick plug and work, electrode installation and replacement is quick and convenient.
- Easy use and reliable results, interface operation instructions can reduce operational errors.
- With 4~20mA, MODBUS RS485 multiple data output modes.
- pH, ORP, conductivity sensor easy cleaning, and the balance speed is fast, with good repeatability and stability.
- SS: Dissolved oxygen sensor adopts breakthrough fluorimetry technology, basically no maintenance, and comes with NTC temperature compensation function.
- High-precision turbidity adopts 90° light scattering method, flow-through measurement, data is stable and reproducible;
- The turbidity, suspended solids/sludge concentration sensor uses the ISO7027 standard method (infrared light scattering technology) to eliminate the influence of sample color and optional cleaning brush function.
- The chlorophyll sensor and the blue-green algae sensor are based on the fluorescence measurement target parameters of the pigment, which can be identified before potential blooms are affected, no need extraction or other treatment, rapidly detection to avoid the effects of leaving the water sample.

Applications

- Online monitoring of multi-parameter water quality in surface water, drinking water sources and aquaculture; Online monitoring of water quality in wastewater treatment plants, industrial sectors and Marine sea water quality.

Technical Specifications

Display	7 inch touch screen with LED strong backlight, can operate in direct sunlight
Power supply	AC power supply: 85-500VAC or DC Power：9-36VDC
Output	Standard 8 channels 4-20mA analog output. Program setting response parameters and response values
Relay	Four-way relay, program setting response parameters and response values
Communication protocol	Standard MODBUS RS485 communication for real-time transmission of measured value. Optional wireless communication method： 4G: UDP/TCP NB: UDP
Main Material	PA66+GF25+FR (top cover); aluminum powder dusting (lower shell)
Storage Temperature	-20 to 70℃
Operation temperature	-15 to 60℃
Protective rate	IP65/ NEMA4X
Dimension	260mm*200mm*123.3mm (L*W*H)
Weight	About 2.0KG

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Standard Electrode Parameters

Temperature	**Principle**	Thermistor method
	Range	0℃-80℃
	Accuracy	±0.5℃
pH Sensor	**Principle**	Glass electrode method
	Range	0-14 pH
	Accuracy	±0.1 pH
	Dimension	28.7mm*195mm（Φ*L）
EC Conductivity Sensor	**Principle**	Conductivity cell method
	Range	10us/cm-5000 us/cm（K=1）
	Accuracy	±3% or 3 us/cm, whichever is greater
	Dimension	28.7mm*195mm（Φ*L）
DO (Dissolved Oxygen)	**Principle**	Fluorescence
	Range	0-20 mg/L；0-200% Saturation
	Accuracy	±3% or ±0.3 mg/L, whichever is greater
	Dimension	49.5mm*251.5mm（Φ*L）
Residual Chlorine Sensor (electrode method)	**Principle**	constant voltage method
	Range	0-2 mg/L，0-20 mg/L（optional）
	Dimension	13.5mm*178.5mm（Φ*L）
Turbidity Sensor (electrode method)	**Principle**	Light scattering method
	Range	0.01-100NTU；0.01-4000NTU
	Accuracy	Less than ±2% of the measure reading or ±0.1 NTU, whichever is greater
	Dimension	60mm*261mm（Φ*L）
Suspended Solids Sensor SS Sensor Sludge Concentration	**Principle**	Fluorescence
	Range	0.01-20000mg/L；0.01-45000mg/L；0.01-120000mg/L
	Accuracy	Less than the ±5% of measured value. (Depending on the homogeneity of sludge)
	Dimension	60mm*261mm（Φ*L）
Chlorophyll Sensor	**Principle**	Fluorescence
	Range	0-500 ug/L
	Accuracy	±5% of the signal level corresponding value of 1ppb Rhodamine B Dye
	Dimension	30*223mm（Φ*L）
Blue-green algae BA Sensor	**Principle**	Fluorescence
	Range	0-300,000cells/mL
	Accuracy	±10% of the signal level corresponding value of 1ppb Rhodamine B Dye
	Dimension	30*223mm（Φ*L）
UVCOD Sensor	**Principle**	Spectroscopy
	Range	0-2000mg/l COD (2mm optical path),0-1000mg/l COD (5mm optical path) 0-90mg/l COD (50mm optical path)
	Accuracy	±5%（KHP Standard solution）
	Dimension	69*365mm（Diam*L）
NO3 Sensor	**Principle**	Spectroscopy
	Range	0.1-100.0mg/L(1mm optical path),0.1-50mg/l (2mm optical path)
	Accuracy	±5%
	Dimension	69*365mm（Diam*L）
Ammonia nitrogen Sensor	**Principle**	Ion selection
	Range	NH4N：0.1-3000 mg/L, K+: 0.5- 5000 mg/L (Optional), PH：5-10
	Accuracy	NH4N：±5 % or ± 0.2 mg/L bigger; K+：±10 % or ±0.2 mg/L（Optional） Temp：±0.5℃ ; pH：±0.1 pH
	Dimension	55mm*342mm（Φ*L）

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