



Datasheet

Multi-parameters water analyzer

SUP-MPP1000

Supmea[®]

Committed to process automation solutions

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Datasheet**Multi-parameters water analyzer
SUP-MPP1000**

Multi-parameters water analyzer is a new generation of drinking water quality monitoring equipment independently developed and manufactured by our company. This equipment can be widely used in urban or rural water supply plants, tap water pipeline networks, tap water secondary water supply, user taps, Online monitoring of water quality such as large-scale water purification equipment and direct drinking water is an indispensable online analysis equipment in the fields of water plant production process control, water conservancy and water management, and sanitation supervision.

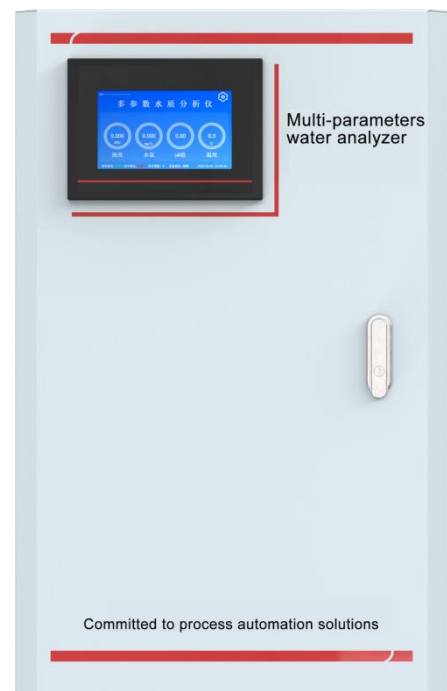
The monitoring parameters include turbidity, residual chlorine dioxide, pH, temperature, conductivity, dissolved oxygen, ORP, etc.

Application

- Urban/rural water supply plants
- Sewage treatment
- Tap water
- Secondary water supply
- Indoor swimming pools
- Online monitoring of water quality
- Water conservancy
- Water management
- Sanitation supervision

Features

- Multi-parameters
- High precision
- High reliability
- Low maintenance
- Self-protection
- Easy integration
- Strong environmental adaptability
- Highly customized

**Multi-parameters water analyzer**

Parameters

Working power	(220±22)VAC, (50±1)Hz
Power	30W
Cabinet size	800mm*506mm*180mm(standard version)
Weight	15kg
Storage temperature	4℃~+50℃
Working temperature	4℃~+50℃/-25℃~+50℃
Working humidity	≤95%RH (no condensation)
Inlet flow	500 ~ 1000 mL/min
Inlet pressure	< 3kg/cm ²
Communication interface	RS485 Modbus RTU communication protocol + air data interface
Display	7-inch color touch screen, Chinese/English
Working power	(220±22)V AC, (50±1)Hz
Cabinet size	800mm*506mm*180mm(standard version)

Turbidity

Measurement method	90° light scattering method			
Range	0-1NTU	0-20NTU	0-100NTU	0-2000NTU
Accuracy	2% or 0.02NTU			10% or ±0.5 NTU, whichever is greater
Resolution	0.0001NTU			0.001NTU
Lower detection limit	0.005NTU			
Zero drift	≤1.5%			
Repeatability	≤1%			
Response time	≤120s			
Recommended maintenance period	3-12 months (depending on the water quality on site)			

Residual chlorine/chlorine dioxide

Measurement method	Amperometric method/ polarography(automatic temperature and pH compensation) Chlorine dioxide adopts special membrane head and electrolyte, which can effectively shield the interference of residual chlorine, and the maximum shielding amount is 2mg/L.
Range	0-5mg/L / 0-20mg/L
Resolution	0.001mg/L
Lower detection limit	0.03mg/L
Accuracy	±3% (DPD comparison deviation: ±10% or ±0.05 mg/L, whichever is greater)
Sample pH Range	(4~9)PH
Response time	≤90 seconds
Recommended maintenance period	1-3 months or weekly calibration, 3-6 months to replace consumables

Measurement method	Amperometric method/ polarography (automatic temperature and pH compensation) Chlorine dioxide adopts special membrane head and electrolyte, which can effectively shield the interference of residual chlorine, and the maximum shielding amount is 2mg/L.
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PH /ORP(optional)

Measurement method	Electrode method (automatic temperature compensation)
Range	0-14pH, $\pm 2000\text{mV}$ (ORP)
Resolution	0.01pH, $\pm 1\text{mV}$ (ORP)
Accuracy	$\pm 0.05\text{pH}$, $\pm 20\text{mV}$ (ORP) or $\pm 2\%$
Repeatability	$\pm 0.01\text{pH}$, $\pm 10\text{mV}$ (ORP)
Response time	≤ 60 seconds
Recommended maintenance period	1-3 months

Temperature

Measurement method	Thermistor method
Range	$0^{\circ}\text{C} - 50^{\circ}\text{C}$
Resolution	0.1°C
Accuracy	$\pm 0.5^{\circ}\text{C}$
Repeatability	$\leq 0.5^{\circ}\text{C}$
Response time	≤ 25 seconds
Recommended maintenance period	12 months

Conductivity (Optional)

Measurement method	Conductivity cell method (automatic temperature compensation)
Range	0-20000uS/cm Pure Water Electrode:0~20uS/cm
Resolution	0.01uS/cm
Lower detection limit	6uS/cm
Accuracy	$\pm 0.8\%\text{FS}$ Pure Water Electrode:3%FS
Repeatability	$\leq 0.4\%\text{FS}$
Response time	≤ 30 seconds
Recommended maintenance period	3-6 months
Measurement method	Conductivity cell method (automatic temperature compensation)

Dissolved oxygen (Optional)

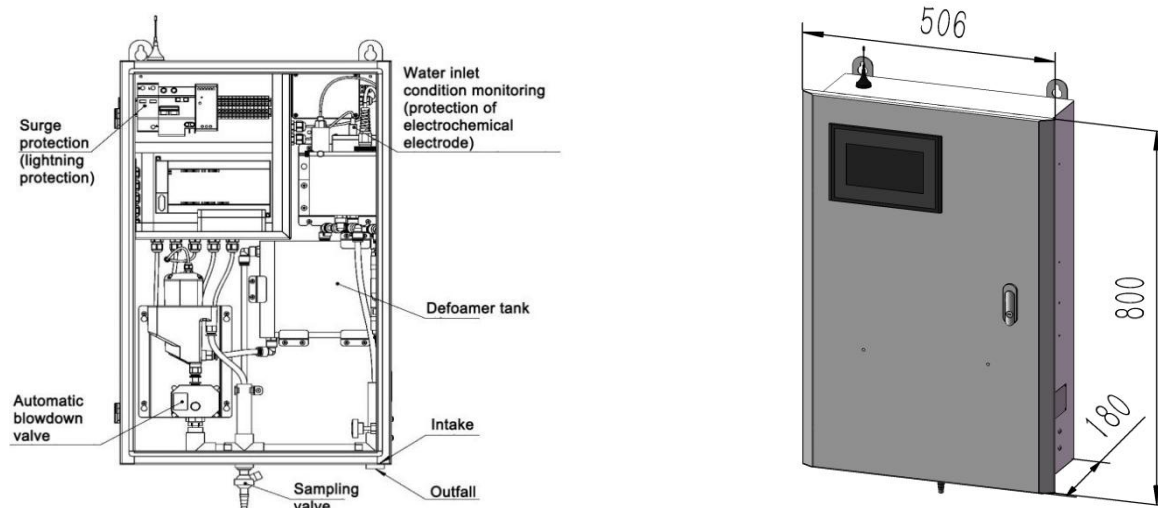
Measuring method	Fluorescence method (Optional coating ampere current method)
Range	0-20mg/L
Accuracy	$\pm 0.3\text{mg/L}$
Repeatability	$\leq \pm 1.5\%$
Response time	≤ 30 seconds
Recommended maintenance period	1-3 months

Expansion port

Port type	RS485、4-20mA
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Dimensions

- The main structure of the multi-parameter water analyzer is shown in the Figure.



Ordering code

SUP-MPP1000-3A-A-E-3														Description
MPP1000	-	-	-	-	-	-	-	-	-	-	-	-	-	
Measurement Parameter Type	3A													Three Parameters: pH, Turbidity, Temperature
	3B													Three Parameters: pH, Residual Chlorine, Temperature
	4A													Four Parameters: pH, Turbidity, Residual Chlorine, Temperature
	4B													Four Parameters: pH, Turbidity, Chlorine Dioxide, Temperature
	5A													Five Parameters: pH, Turbidity, Residual Chlorine, Conductivity, Temperature
	5B													Five Parameters: pH, Turbidity, Chlorine Dioxide, Conductivity, Temperature
	5C													Five Parameters: pH, Turbidity, Dissolved Oxygen, Conductivity, Temperature
	6A													Six Parameters: pH, Turbidity, Dissolved Oxygen, Conductivity, Temperature, Residual Chlorine
	6B													Six Parameters: pH, Turbidity, Dissolved Oxygen, Conductivity, Temperature, Chlorine Dioxide
	XX													Other
Output	A													RS485
	B													4-20mA+RS485
Power Supply														220VAC
Housing Material and Ingress Protection														304SS, IP56
														Plastic ABS, IP65

Note: Parameters can be matched as follows: turbidity, chlorine dioxide/residual chlorine, temperature, pH, conductivity /TDS, dissolved oxygen,ORP