Datasheet

Online turbidity analyzer

SUP-PTU300

Supmea®

Committed to process automation solutions

Tel: 86-15158063876

E-mail: info@supmea.com

www.supmea.com

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Online turbidity analyzer
SUP-PTU300

The SUP-PTU300 online turbidity analyzer is a patent product with independent intellectual property rights for on-line monitoring of drinking water quality. It has the characteristics of ultra-low turbidity detection limit, high precision measurement, long time maintenance-free equipment, water saving and digital output. It supports remote monitoring of cloud platform and mobile phone data, and RS485-modbus communication.

Applications

- Rare water
- Sewage sedimentation tank
- Food industry
- Water purification plant
- Thermal power
- Chemical
- Fertilizer
- Environmental protection

Online turbidity analyzer

Features

- Small size, easy system integration
- Ultra-low turbidity detection limit
- Optional measuring range
- Low range, high accuracy
- Water saving
- Digital output
- Remote monitor

Principle

SUP-PTU300 turbidity meter adopts 90° scattering detection principle, and designs unique photoelectric receiving structure, as well as automatic temperature and light compensation method, which greatly improves the accuracy and accuracy of turbidity detection. The sensor ARM7 built-in data processor, and adopts efficient digital filtering algorithm to avoid noise interference. At the same time, it adopts standard Modbus digital signal output and 4-20 mA analog output, which is convenient for users to access the computer monitoring system.

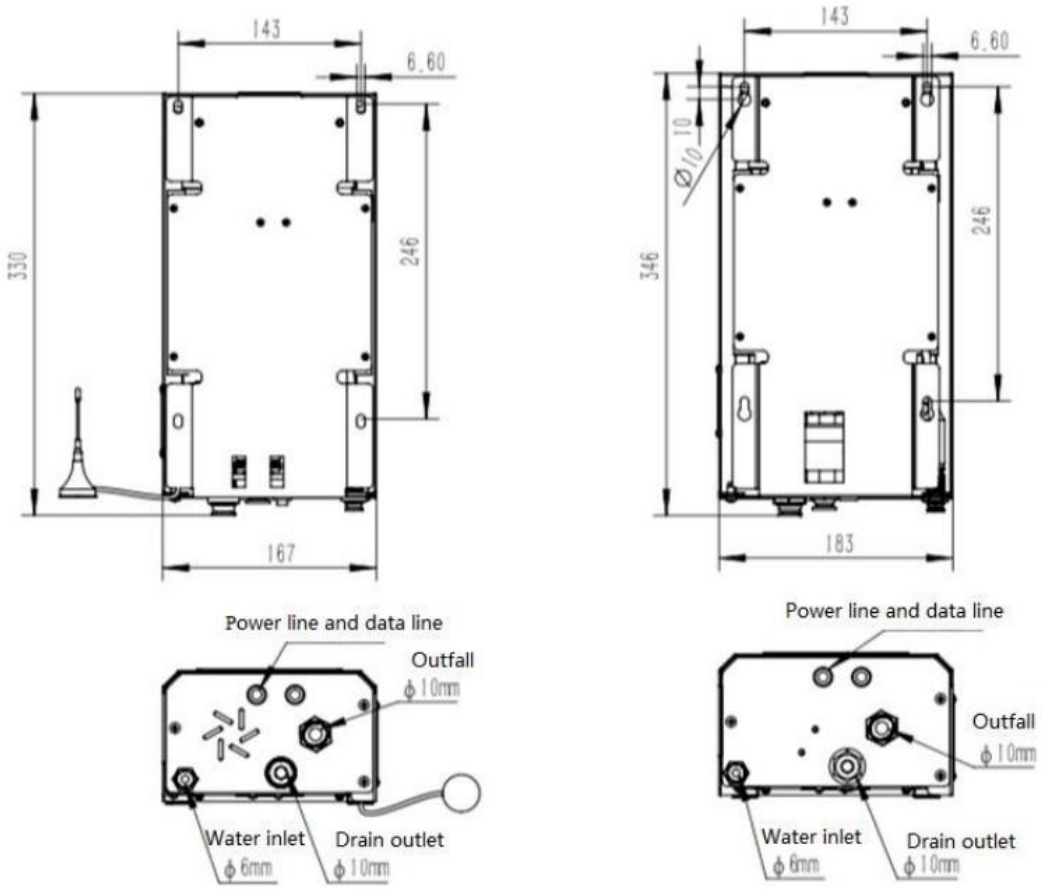
Parameters	
Range	0-20 NTU
	0-1 NTU
Operating range	DC 24V (19-30V voltage range)
Measurement	90° scattering
Working mode	Continuous monitoring of drainage, intermittent automatic discharge
Zero drift	≤±0.015 NTU
Value error	≤±2% or ±0.015 NTU larger
Discharge mode	Automatic
Calibration	Formalhydrazine standard liquid calibration (factory calibrated)
Water pressure	0.1 Kg/cm3-8Kg/cm3, flow not exceeding 300 mL /min
Digital output	RS485Modbus protocol (baud rate 9600,8, N 、1)
Analog output	4-20 mA
Storage temperature	-20℃-60℃
Working temperature	0-50℃
Sensor material	Composite
Maintenance cycle	6-12 months recommended (depending on site water quality environment)

Wiring

485Modbus interface wiring mode as below table.

Color	Function
Green	485A
Yellow	485B

Dimension



Installation Dimensions (left: A, right B)

Ordering code

SUP-PTU300-RT1-O0-V2				Description
SUP-PTU300	-	-	-	
Range	RT1			0-1 NTU
	RT2			0-20 NTU
	RT3			0-100 NTU
Output		O0		Non
		O1		4-20 mA
Power supply			V2	24VDC