

Online Turbidity Meter

Application:

This product is applied to measure the light scattering degree produced by the not-dissolved particles in the suspended transparent or opaque liquid and measure the content of these suspended particles.

Waterworks: turbidity monitoring of reservoir, well, clean water pool, filter, filtered, precipitation and water treatment plant

Industrial process: water quality monitoring of production recycled water, recycled water, etc.

Sewage treatment: water quality of inlet and outlet

Online turbidity measurement of electric, pure water, beverage, wine and pharmaceutical industries

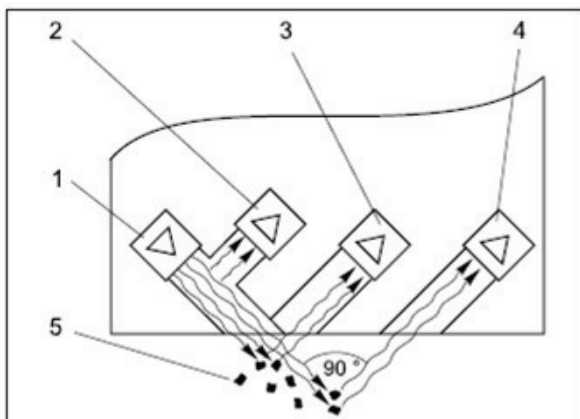


Features:

- Standard 90° scattering light measurement technique which provides reliable measurement results
- Immersion type probe with self-clean wiper, maintenance-free
- Simple key operation
- Digital sensor, two-channel input, plug and play
- Self-diagnostic function
- Low-scale circulating built-in bubble eliminating system
- The measurement result is not affected by the bubbles.
- Scattering composite light; Low turbidity data is not affected by Brownian diffusion impact
- Automatically compensation for voltage fluctuations, device aging, temperature change and sludge color

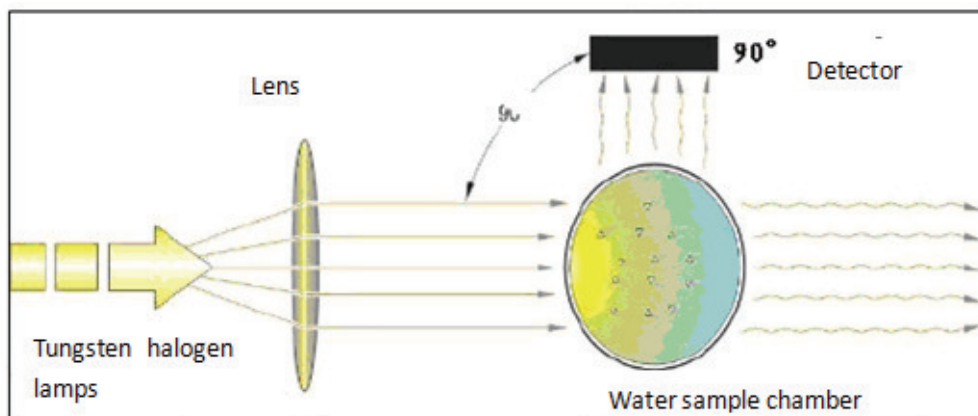
Working principle:

Immersion sensor, the transmitter transmits an infrared beam at an angle to the direction of the radiating medium, light encounter particles in the medium, then scatter. part of the scattered light incident on the receiver 90°, absorbed by the receiver, compared with the reference Comparative optical receiver combining the plurality of receivers to compensate for the calculation, because the detector receives the light intensity and the measured turbidity of the effluent of a certain relationship, so by measuring the scattered light intensity can be calculated turbidity of the water.



- 1) An infrared light emitter
- 2) Reference diode
- 3) Is a scattered light receiver
- 4) Scattered light receiver 2
- 5) Particles

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Flow- sensor, water samples go through the bubble trap, entrained air bubbles are removed, it flow into the measurement chamber of sensor ,through the center column.

The measuring chamber is sealed in a dark chamber , do continuous online measurement accuracy . And a replaceable desiccant pack ensure reliable measurement environment. Incandescent light emitted by the light source assembly of the sensor , after being scattered by particles in the sample with a beam of 90° to a monitor receiver ,the received signal proportional to the turbidity of the sample.

Technical Parameter:

Detector

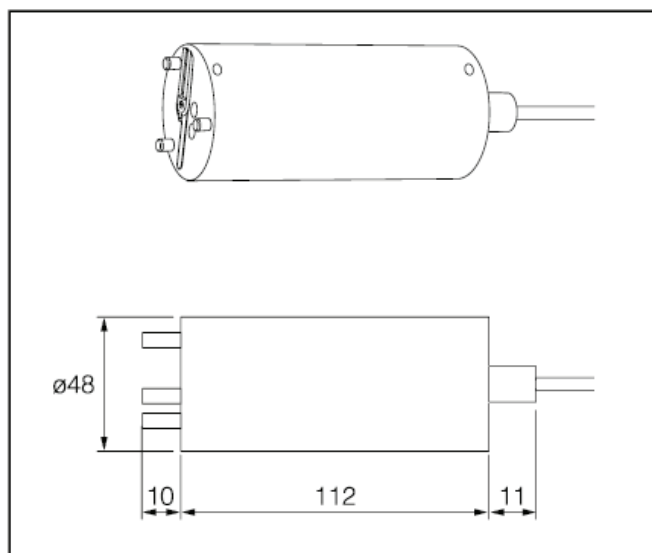
Measurement Range	:	0 ~ 20NTU, 0 ~ 200NTU, 0 ~2000NTU, 0 ~ 100mg/l, 0~1000mg/l
Accuracy	:	±2%FS
Reproducibility	:	better than reading ±1.0%
Response time	:	1S (can be adjusted)
Velocity of flow	:	100-700ml/min
Temperature	:	0°C to 40°C
Cable Length	:	Standard 10m, The maximum length 100m
Protection	:	IP68
Water pipe	:	1/4"NPT Internal thread, 1/4" Compression fittings (provided)
Drainage pipe	:	1/2"NPT Internal thread, 1/2" Hose(provided)

Transmitter

Analog output	:	4~20mA
Digital output	:	MODBUS/RS485, MODBUS/RS232
Output relay	:	Four alarm system , 250VDC, 3A, all the way to the cleaning system 250VDC, 3A
Frequency of reading	:	0.5S one time
Power supply	:	90-265VAC, 50/60HZ
Protection	:	IP65
Installation	:	Wall-mounted
Size	:	210/105/185mm, L/W/H

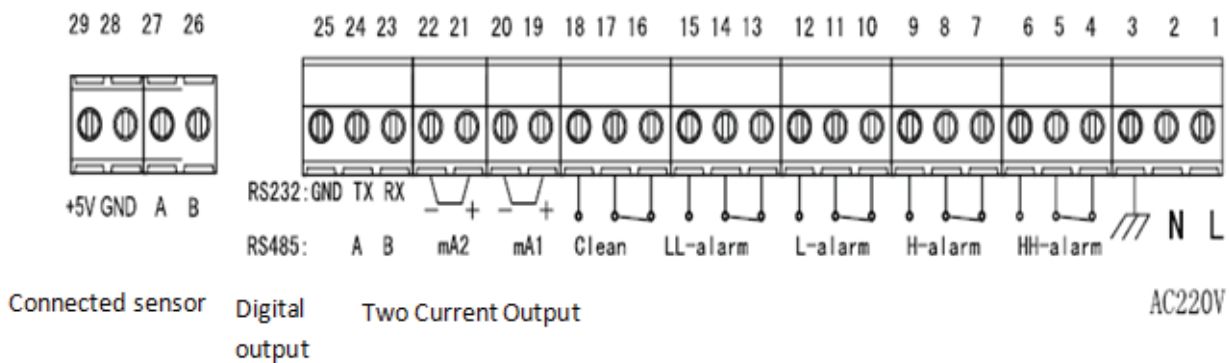
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Dimension:



Immersion sensor Dimensions

Instrument Wiring:



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HOW TO ORDER

	Basic Model	TBD
	Measurement Channels:	1
	1 Single channel 2 Double-channel	
		
	Output:	0
	0 4 ~20MA 1 RS 485 2 RS 232	
		
	Power Supply:	AC
	AC 220VAC DC 24VDC	
		
	Installation type:	1
	0 Immersed 1 Sampling System	
		
	Cable length:	C10
	C10 10m cable CX XX m cable	
		
	Measurement Range:	0/100NTU
	NTU or mg/L	
		

Ordering Example: TBD99-1-0-AC-C10-0/100NTU