



PRODUCT OVERVIEW

WATER QUALITY ANALYSIS EQUIPMENT

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Turbidity Meter



Model : T40

Profiles

MAC **turbidity transmitter sensor T40** is the latest developed product of online turbidity sensor. It applies imported components and advanced technology. Advanced technology ensures stable, reliable and accurate long-term work of the sensor. With 0-3.3V/5V analog voltage output, 4-20mA analog output, digital 485MODBUS RTU output and other functions. It can be widely used in chemical fertilizers, metallurgy, environmental water treatment projects, pharmaceutical, biochemical, food, aquaculture and tap water solutions such as continuous monitoring of turbidity value.

Technical parameters

Basic Parameters	Clear water turbidity electrode	Sewage turbidity electrode	SS sensor
Measurement Range	0-4000NTU	0-1000NTU	0-20000mg/L
Main Materials	316SS, POM		
Response Time	t90 : 60s		
Illuminant	860nm		
Working Life	5year		
Environment Temperature	-20 ~ +60℃		
Pressure Range	<10Bar		
Waterproof Rate	IP68		
Calibration	Slope Calibration		
Input	DC24V		
Weight	0.7Kg		

Working principle

Clear water turbidity electrode(0-4000NTU): Turbidity is caused by the suspended particles in water, which will reflect the incident light diffusely. Usually, the scattered light in the direction of 90 degrees is used as the test signal. In this way, the unit tested is called NTU. After several experimental studies and theoretical calculations, it is found that the ratio of scattered light to transmitted light is in line with turbidity. In this sensor, the ratio of scattered light to transmitted light is used instead of simply scattered light to measure turbidity. The accuracy and reliability of the sensor are improved, the maintenance is simpler, and the anti-pollution property is enhanced.

Sewage turbidity electrode(0-1000NTU / 0-20000mg/L): The concentration of suspended matter particles in sewage is very high. If traditional 90-degree scattering measurement is adopted, it is difficult to obtain accurate measurement results because suspended particles block a large amount of incident and scattered light. Therefore, we use 30-degree scattered light for measurement. The sensor's optical surface is coated with a unique nano antifouling coating that ensures the sensor doesn't require maintenance for two months.

Application

Water's Turbidity Sensor is a highly accurate submersible instrument for in-situ environmental or process monitoring. Applications for the turbidity sensors include: water quality testing and management, river monitoring, stream measurement, reservoir water quality testing, groundwater testing, water and wastewater treatment, and effluent and industrial control.

Sanitary Sewage

House Drainage System



Building Utility & Services

Beverage Factory



Winery



Process Water



Power Station

