

YK-ZDYG Online Turbidity Meter

Summary

A turbidimeter is an on-line analytical instrument designed to measure turbidity of water quality in municipal or industrial wastewater treatment. It can be applied to turbidity changes during biochemical treatment and provide continuous and accurate measurement results. The innovative multi beam mutual compensation technology can eliminate the measurement error caused by the photometric stain of the sensor, reduce the workload of maintenance and improve the reliability of the work, especially for the bad conditions in the field of sewage treatment.

Principle

The photoelectric sensor of the linear turbidimeter is composed of light source, lens and photoelectric element. When the light is measured, the scattered light which is 90 degrees in the direction of the incident light is acted on the photoelectric element. The electrical signal with the change of turbidity is produced. The signal is sent to the signal processor together with the datum signal. The signal processor takes the integrated circuit as the core, and forms the electronic circuit with stable performance. The signal is amplified, filtered, operated and compensated, so that it has a linear relationship with the turbidity of the measured sample in the whole range of measurement.

Feature

- The menu structure is easy to operate and displays in Chinese (English).
- Multi parameter display on the same screen;
- Bubble suppression system to eliminate bubbles;
- Calibration is convenient, calibration is fast and can be calibrated online.
- The function of the history curve and the digital recorder;
- Multiple signal output, alarm function;
- It has good repeatability and is not affected by the flow rate and pressure of the sample.

Parameter

Code	YK-ZDYG-2088Y/T
Measure Range	0 ~ 5NTU
	0 ~ 10NTU
	0 ~ 20NTU
	0 ~ 100NTU
	0 ~ 200NTU
Accuracy	<FS (Full Span) ±2%
Repeatability	<FS±1%
Resolution	0.001NTU/0.01NTU/0.1NTU
Sample Quantity	200ml Consistant
Working Temperature	4 ~ 40°C
Related Humidity	<70%RH
Power Supply	200 ~ 240V , 50HZ
Consumption	<25W
Size	146×146×108 (D) mm
Hole Size	138×138 mm
Transmitter Size	340 (L) ×280 (W) ×160 (D) mm
Water Box Size	180 (L) ×160 (W) ×80 (D) mm
Weight	15kg
Usage	Water With Lower Impurity
Application	Tap water, power plants, sewage treatment plants, pharmaceutical factories, hospitals



Sensor Parameter



Code	YK-ZDYG-20/200	YK-TC100/500/3000
Measure Range	0~20NTU ; 0~200NTU	0~100NTU/0~500NTU/0~3000NTU
Wokring Temperature	0~40℃	0~60℃
Accuracy	<FS (Full Span) ±2%	<FS (Full Span) ±5%
Resolution	0.01NTU	
Signal Output	4~20mA (Resistance<750Ω)	
Inlet Pressure	/	0.3~3Mpa
Repeatability	<FS±1%	
Drift per hour	<0.1NTU	
Sensor Material	PC/PPS	SS316
Install	Circulation	Inputting
Consumption	< 25W	
Weight	3kg	
Sensor Size	/	Φ32*163mm
Deepest Depth	/	Under Water 2m
Related Humidity	< 70%RH	