turbidity meter, measure turbidity

Model: **APEX-JCX581**

Standard:

Introduce: **1, turbidity transmitter unit and the electronic measurement unit (including the measuring cell and auxiliary equipment) components. The product has a...**

Detailed product information

APEX-JCX581 Turbidity Meter
First, the turbidity meter,measure turbidity characteristics
Turbidity is commonly used food lab equipment.
1, turbidity transmitter unit and the electronic measurement unit (including the measuring cell and auxiliary equipment) components. The product has a free calibration, high accuracy, low power consumption. The transmitter has automatic temperature compensation.
2, the water system then automatically adjust the measured pressure and flow rate of water samples, water samples at a constant flow rate of flow into the measuring cell, improve the stability of the instrument.
3 , can automatically eliminate air bubbles in water samples tested , the instrument 's readings more accurate.
4 , using a laser light source , light stability, longer life than LED , up to 100,000 hours , low power consumption energy saving.
5 , analog output 4-20mA standard signal
6, with upper and lower alarm function , independent of the upper and lower alarm relay output control with two -way , back to the difference between the independently adjustable .
7, with a digital display and waveform display two display modes , the digital display mode with upper and lower alarm display date and time display . Waveform display mode can automatically adjust the upper and lower alarm value display range based on .
8 , the offset can be adjusted according to the value of b equation y = kx + b , and the negative offset is adjustable .
9 , has a waveform recording function , can be recorded continuously for two months (60) days of the waveform data , you can look at historical data.
10 , the transmitter in addition to transmission function , there isolation . Sensor input and output signal using a linear optocoupler isolation , effectively ensure the stability of the signal. The turbidity of the transmitter voltage signal processing, and then the temperature compensated reference signal and then outputs the measurement of turbidity in the solution .
Second, the turbidity meter,measure turbidity installation requirements
Turbidity is commonly used food lab equipment.
⑴ entire instrument is a three-dimensional wall-mounted, must be installed on a flat , dry, ventilated , no vibration, no on -corrosive gases , liquids wall .
⑵ instrument to be installed in the drainage, water samples are more convenient place .
⑶ instrument to be installed perpendicular to the ground , not tilted.
Do not install the equipment in place ⑷ direct glare , strong electromagnetic interference.
⑸ connecting the instrument inlet, outlet pipe firmly .
Third, the turbidity meter,measure turbidity sensor works
Turbidity is commonly used food lab equipment. Turbidity sensor using surface scattering theory , divided into two parts , the laser light power detector. Directly affect the stability of the laser light source measurement instrument accuracy and reproducibility. Using tungsten halogen lamp as the light source life turbiditor only a few hundred to several thousand hours , and the use of laser components, not only energy saving, but life can be increased to 100,000 hours . So the choice of the laser beam as a light source device , the laser emitted at an angle to the horizontal to the water injection , the water surface above the photocell portions , the direction of the laser beam was 90 degrees , the scattered light intensity received by the different type of turbidity, this sensor signal processing changes the current signal transmitted from the conversion . And a photodetector
The laser light source is not in contact with water during use without cleaning .
①, measurements, there are two ways to display the measurement results : Readout Display / waveform display
②, reading adjustment
③, historical inquiry
④, Clear History feature
⑤, time setting function
⑥, upper and lower alarm setting function
Fourth, the technical indicators
Measuring range : 0 ~ 99.99NTU
Accuracy : 2% FS (0 ~ 99.99NTU)
Resolution : 0.01NTU
PH range: 5.5 to 9
Sensor life : ≥ 2 years
Measurement results are stored interval : Adjustable
Measurement results are stored depth: 60 days
Response time : <1min (90%, 20 °C)
Operating voltage : AC220V
Working temperature : 1 ~ 50 °C
Humidity : ≤ 80% non-condensing
Minimum flow : 6L / h
Interface Material : PTFE
Connecting pipe : PE pipe
Port Size: 1 / 4 inches
Transmitter power supply voltage : 5V DC
Output signal :4-20mA signal turbidity
Load resistance : 750Ω