



CDT-N0C Multi-parameter Water Quality Sensor

For weather automation applications



Features

- On-line & real-time monitoring
- With temperature compensation
- High accuracy
- Simple operation and high reliability
- Fast response
- Multiple output signal is optional
- Probe can be used under water
- Strong in corrosion resistance
- Infrared Absorption Principle
- Fast Gas Convection and Diffusion

CDT-N0C multi-parameter water quality sensor adopts an integrated design and can measure up to 8 parameters at the same time. You can choose DO, COD, pH, ORP, EC/salinity, NH₄⁺, turbidity, etc. Using RS-485 output, Modbus-RTU communication protocol, data can be directly transmitted to the acquisition platform. The multi-parameter water quality sensor is equipped with an automatic cleaning device, automatic cleaning interval time and number of automatic cleaning cycles can be set to adapt to the water quality of different degrees of cleanliness. The automatic cleaning device can effectively clean the surface of the sensor, prevent the adhesion of microorganisms, and greatly reduce the maintenance cost. Each sensor is equipped with a quick-plug waterproof connector, which is easy to disassemble and assemble. The sensor protection cover at the front is used to protect the internal sensor from damage. There are slots around the protection cover, which can effectively prevent large suspended particles and biological damage to the sensor probe, while not affecting the accuracy of measurement.

Typical installation locations

- Environmental protection
- Agriculture
- Water conservancy
- Industrial wastewater treatment

Design structure

A multi-parameter water quality sensor is an advanced device that can simultaneously measure and monitor multiple parameters related to water quality, typically including temperature, pH, dissolved oxygen, electrical conductivity, turbidity, ammonia nitrogen, total phosphorus, total nitrogen, etc

Easy installation

The sensor is installed in a position where the water flow is relatively rapid and the temperature changes are minimal to ensure the accuracy of the measurement data. For example, when installing in the pipeline, you can choose a straight pipe section and away from strong vibration and electromagnetic interference around, in order to prevent affecting the performance and measurement accuracy of the sensor.

Reliable operation

The correct installation position and method are critical to the reliability of the sensor. Choose a location that accurately reflects the multi-parameter content value of the solution to be tested for installation, and avoid installation in places where there are bubbles, sediments or other disturbing factors. At the same time, when installing, ensure that the contact between the sensor and the tested solution is good to avoid leakage or loosening.

Dimensions

CDT-N0C connector dimension

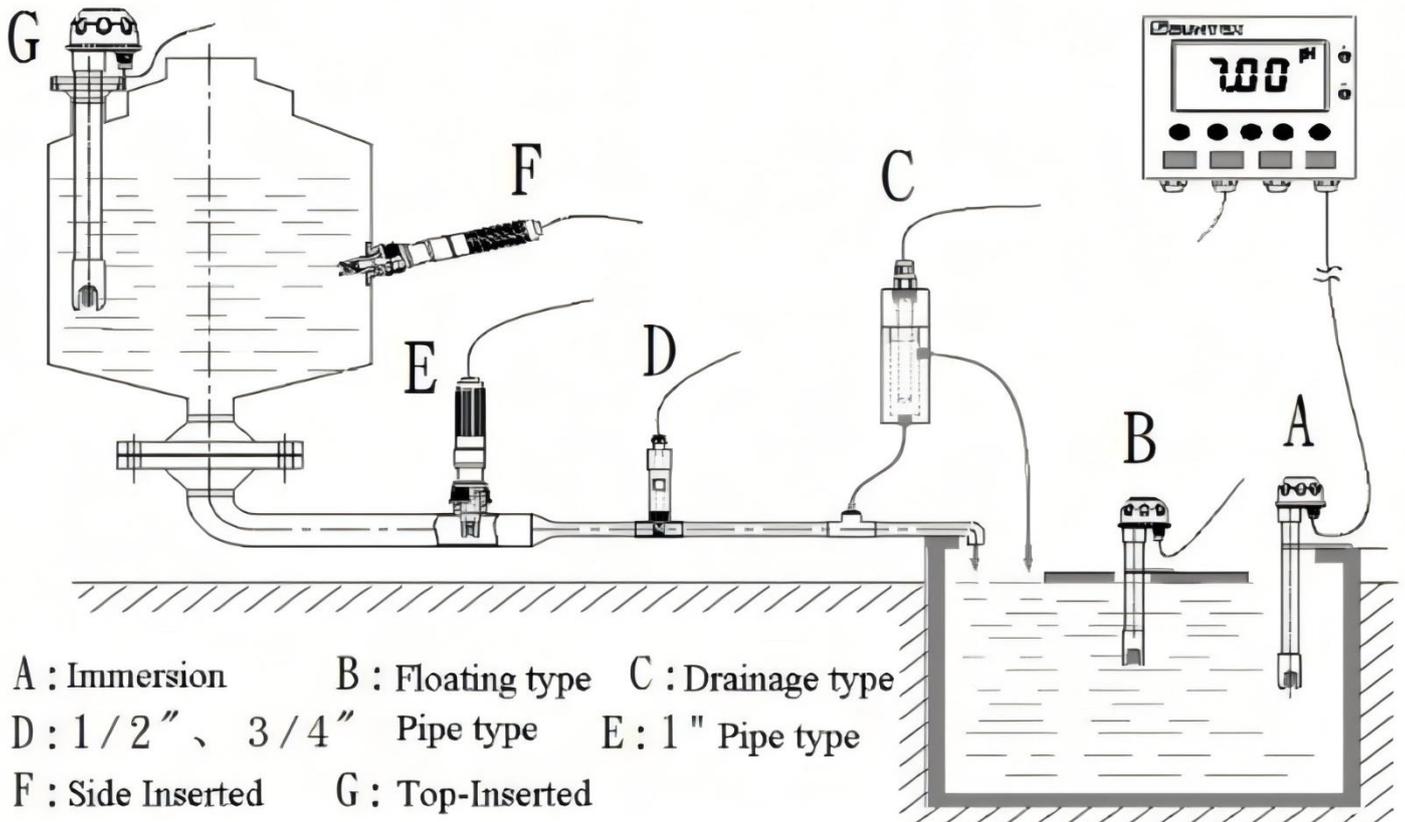


310mm*100mm

Install filter magazine mesh

Total 6 parameter integration

Installing



Technical data

Measurement performance, models CDT -N0C

Measuring Item	Technical Specification		
	Measuring range	Resolution	Accuracy
PH	0-14	0.01	±0.1
EC	0-2000uS/cm	1uS/cm	±1.5% F.S.
DO	0-20mg/L	0.01mg/L	±0.4mg/L
Turbidity	0-1000NTU	0.1NTU	±5% or ±3NTU
Temperature	-30-70℃	0.1℃	±0.3℃
ORP	-1999-+1999mV	1mV	±6mV
Size	310*100mm		
Cable length	5m(default), other lengths can be customized		
Output	RS485		
Power	12-24VDC		

Model number	Type	Output	Special features
CDY-12A	Economical Tipping Bucket Rainfall	Pulses(@10kΩ&0.01uF),RS485	Diameter :φ200mm, height: 271mm
CDG-10B	Solar Radiation	0-5V,4-20mA,RS485	Spectral range:300~1100nm
CDT-11A	PH sensor	0-2V 0-5V 4-20mA RS485	Probe: Φ28*160mm
CDT-12A	DO sensor	RS485 4-20mA	Range 0-20mg/L(ppm)
CDT-12B	DO sensor(calibrable)	RS485 4-20mA	Range 0-20mg/L(ppm)
CDT-14A	ORP sensor	RS485 4-20mA	Range -1500mV-+1500mV
CDT-15A	Suspended Matter	RS485	Range 0-200mg/L,0-1000mg/L,0-5000mg/L
CDT-17B	Soil PH sensor	RS485 4-20mA	Probe material:304SS
CDT-19B	Turbidity (SS) sensor	RS485 4-20mA	Wavelength of falling radiation: 860nm
CDT-21B	Solil EC_salinity	RS485 4-20mA	Probe material:316L
CDT-22B	Soil Moisture & Temperature	4-20mA ,0-5V,0-2V,RS485 optional	Probe material:316L
CDT-30B	Soil Moisture, Temperature & EC	RS485,0-2V	316L stainless steel
CDT-70B	Soil 7 in 1 Sensor	RS485	Soil Moisture, Temperature & EC & PH & NPK
CDT-1T2B	Seismic Detection Wave	0-20mV RS485	Natural Frequency(Hz):10±2.5%
CDT-1T3B	Soil layers temperature&moisture	RS485	Range 0-100℃ 0-70%
CDT-1T4B	TDS Sensor	RS485 4-20mA	Range 0-2000ppm
CDT-1T5B	Dissolved CO2 Sensor	RS485	Range 0-2000ppm
CDT-1T6B	Residual Chlorine	RS485	Range 2mg/L,8mg/L,20mg/L
CDT-N0C	Multi-parameter water quality Sensor	RS485	Multi-parameter integration

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