



CDT-1T4B TDS 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

The probe of the TDS sensor is made of stainless steel and has the characteristics of stable performance, high sensitivity and wide application range. The TDS sensor is simple in structure, stable in performance, easy to operate, and is used for on-site monitoring of liquid water and salt dynamics. In addition, it can also be used in ordinary water treatment, tap water, surface water, industrial water, reverse osmosis, seawater desalination, circulating water and other water treatment equipment sockets or flow cell installation to measure its conductivity.

Typical installation locations

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

Design structure

The electrode is inserted into the solution, and the conductivity of the solution is calculated by measuring the resistance between the electrodes, which indirectly reflects the TDS value. The current flowing through the moving ions forms a certain value, and the larger the value, the more impurities and conductive ions in the water.

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 the elbow, valve and other parts; When installing in a pool or sink, avoid installing in a corner or dead water corner. At the same time, consideration should be given to facilitate future maintenance and calibration operations.

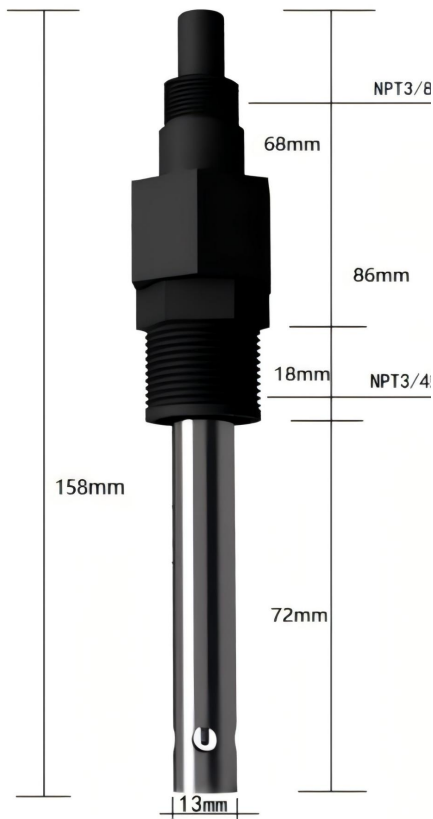
Avoid direct sunlight and dusty environments, and there can be no strong vibration and electromagnetic interference around, in order to prevent affecting the performance and measurement accuracy of the sensor.

Reliable operation

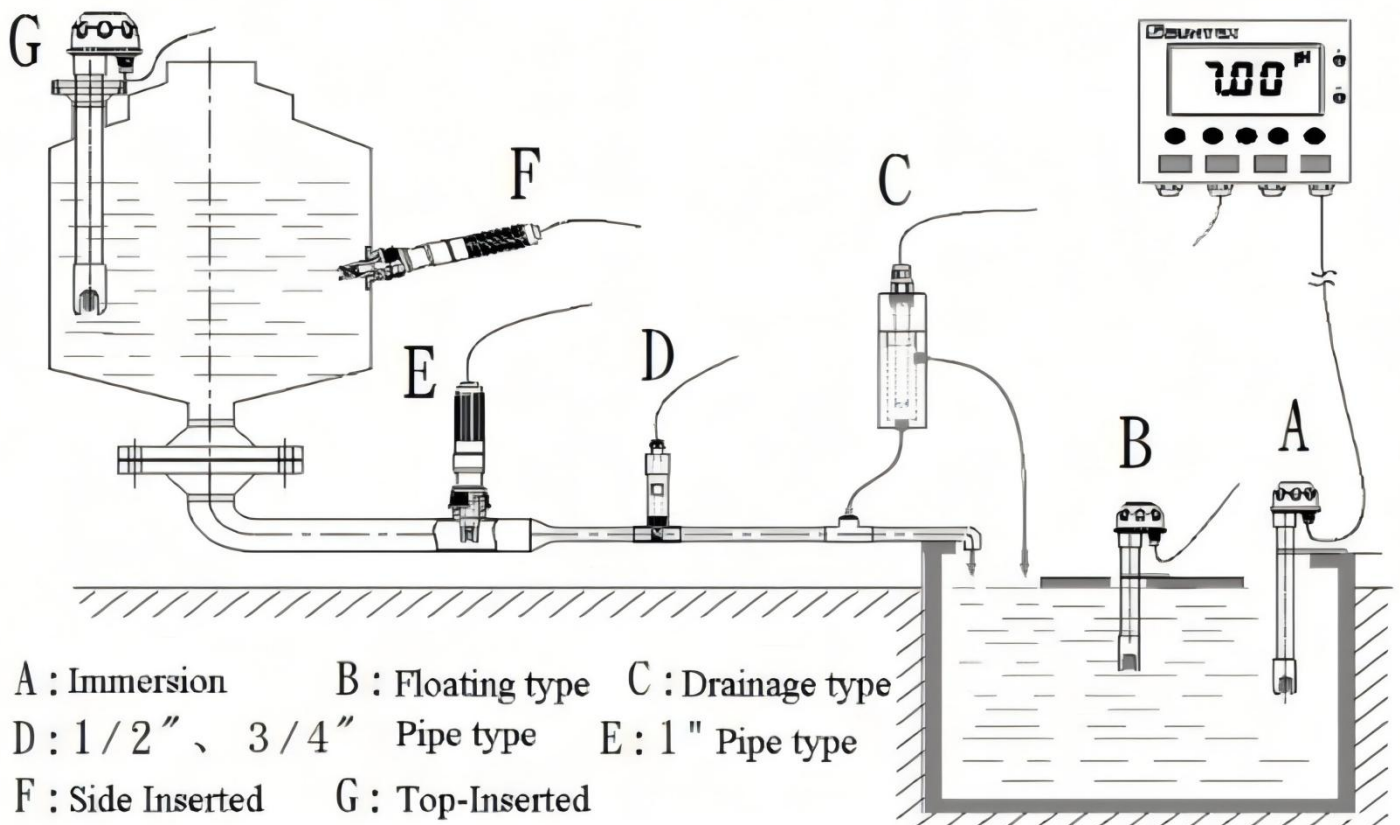
The correct installation position and method are critical to the reliability of the sensor. Choose a location that accurately reflects the TDS value of the solution to be tested for installation, and avoid installation in places where there are bubbles, sediments or other disturbing factors. At the same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

Dimensions

CDT-1T4B connector dimension



Installing



Technical data

Measurement performance, models CDT - 1 T 4 B

Item	Technical Specification
Range	0~2000ppm
Supply	7-30VDC
Accuracy	±1%
Response time	<1s
Output Signal	4-20mA & RS485
Pressure resistance range	0-4bar
Principle	Frequency conversion method
Temperature range	0-60℃
Installation interface	G3/4
Ingress Protection	IP68
Probe material	316L or ABS(Strongly corrosive liquids)
Storage	10-60℃@20%-90%RH
Weight	0.5kg
Cable length	Default:5m

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

Published by CODA | © CODA 2024



All rights reserved. Any logos and/or product names are trademarks of CODA or its individual partners.Any reproduction, transfer, distribution or storage of information contained in this document is prohibited. All specifications — technical included — are subject to change without notice.

Hunan Coda Electronic Tech Co.,Ltd

T:+86-0731-85117089 W:www.codasensor.com E:Molly@codasensor.com