上海淳业仪表科技有限公司
Shanghai Chunye Instrument Technology Co.,Ltd

Tel: +86 21-61621082 61621083 16000027204
Email: CS@cy-ins.com
Web: www.twinno.net
Add: 4th Floor, Building 6, No.166 Mindong Road,Pudong New District, Shanghai, China 201209

Total Solutions For Water Analysis

We are specialized in the research and development, manufacture, sale and service of water quality analysis instruments and electrodes.
Main products: digital electrode, analog signal electrode,multi-parameter water quality monitoring system, turbidity, suspended solids concentration, ion, pH/ORP, dissolved oxygen, conductivity, TDS, salinity, residual chlorine, chlorine dioxide, ozone, acid/alkali/salt concentration, COD, ammonia nitrogen, total phosphorus, cyanide, fluoride, potassium permanganate, orthophosphate, heavy metal ions, ultrasonic level meter, etc.

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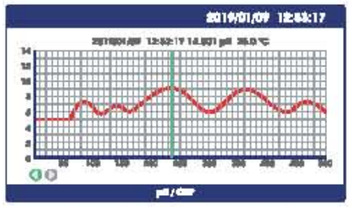
T6000 Series



Trend chart display

Sensor model: CS4760D
Shell material: SS316L,POM
Thread coupling: NPT3/4'
Standard cable length: 10m
Wiring: terminal
Size: 220 * Φ 50 mm
Weight
Installation mode: Sinking type

T6046

Fluorescent Dissolved Oxygen Controller

Strong and sensitive fluorescent membrane cap
Easy installation and flexible operation

- Color LCD screen,multi-line display
- Data recording/Trend chart display/Data upload function
- Panel-mounted and W-mounted installation
- A variety of automatic calibration functions
- Three sets of relay control switches
- 4-20mA&RS485Multiple output modes
- Dissolved oxygen, temperature and current value shows at the same interface
- Password protection function to prevent misoperation by non-staff

Measurement range	0~20.0mg/L
Measurement principle	Fluorescence method
Resolution	0.01mg/L
Basic error	±1%F.S
Temperature	0~50.0℃
Temperature Resolution	0.1℃
Temperature basic error	±0.3℃
Temperature compensation	Automatic or Manual
Stability	At atmospheric pressure & constant temperature,weekly drift< 2% F. S.
Response time	At 25℃<60S;35℃<30S

T6000 Series Specifications

Current Output	Two ways 4~20mA/20~4mA
Communication Output	RS485 MODBUS RTU
Other Functions	Data recording/Trend chart display/Data upload function
Relay Control Contacts	Three:5A 240VAC,5A 28VDC or 120VAC
Power Supply	85~265VAC;9~36VDC;Power consumption≤3W
Protection Grade	IP65
Weight	0.8kg
External Dimensions	144×144×118mm
Panel Opening Size	138×138mm
Installation Methos	Panel,wall mounting or pipeline;
Operating Temperature	-10~60℃
Relative Humidity	≤90%
Operating Environment	No strong magnetic field interference except the geomagnetic field.

T4030 4-Electrodes Conductivity Controller

Ecnomical, Panel Mounted Installation

- Color LCD screen,multi-line display
- A variety of automatic calibration functions
- Two sets of relay control switches
- RS485 Multiple output modes
- High alarm,low alarm, and hysteresis control
- Password protection function to prevent misoperation by non-staff

T4000 Series

Conductivity	0~500mS/cm
Resolution	0.01μs/cm;0.01ms/cm
Basic Error	±0.5%FS
Resistivity	0~18.25MΩ/cm
Resolution	0.01KΩ/cm;0.01MΩ/cm
TDS	0~9999mg/L
Resolution	0.01mg/L
Salinity	0~700ppt
Resolution	0.01ppt
TEMP Comp	Automatic or Manual
Response time	At 25℃<60S;35℃<30S
Stability	Normal temperature and pressure ,weekly diff< 2% F. S.

T4000 Series Specifications

Current Output	4~20mA/20~4mA(selected)
Comm. Output	RS485 MODBUS RTU
Relay	Two:5A 240VAC;6A 28VDC or 120VAC
Power Supply	85~265VAC;9~36VDC,Power ≤3W
Protection Grade	IP65
Weight	0.6kg
External Dimensions	96×96×130mm
Panel Opening Size	93×93mm
Installation Methos	Panel mounted or pipline mounted;
TEMP	0~50.0℃
TEMP Resolution	0.1℃
TEMP Basic Error	±0.3℃
Operating TEMP	-10~60℃
Relative Humidity	≤90%
Operating Environment	No strong magnetic field interference

T6000/ T4000 Series Controller

See P9-10 for supporting electrodes

	T6030/ T4030 Conductivity/Resitivity/TDS/Salinity		T6000/ T4000 PH/ORP	T6040/ T4040 Dissolved Oxygen	T6050/ T4050 Free Chlorine	T6053/ T4053 Chlorine Dioxide
Conductivity	0~500mS/cm	Range	-2~16.00pH;	0~20.0mg/L	0.005~20.00mg/L	0.005~20.00mg/L
Resolution	0.01μs/cm;0.01ms/cm	ORP Range	-2000~2000mV		Constant voltage/ Potentiometric method	Constant voltage/ Potentiometric method
Basic Error	±0.5%F.S	Principle	pH: mV	Polarography		
Resistivity	0~18.25MΩ/cm	Resolution	0.001pH; 1mV	0.01mg/L	0.001mg/L	0.001mg/L
Resolution	0.01KΩ/cm;0.01MΩ/cm	Basic error	±0.01pH; ±5mV;	±1%F.S	±1%F.S	±1%F.S
TDS	0~9999mg/L	TEMP Comp	0~150.0℃	Manual or Automatic	Manual or Automatic	Manual or Automatic
Resolution	0.01mg/L	Stability	pH:≤0.02pH/24h;	Weekly Drift<2%F.S	Weekly Drift<2%F.S	Weekly Drift<2%F.S
Salinity	0~700ppt		ORP: ≤2mV/24h;			
Resolution	0.01ppt	Response Time		25℃<60s; 35℃<30s	25℃<60s; 35℃<30s	90% <90s
TEMP Comp	Manual or Automatic					

	T6058/ T4058 Ozone	T6070 Turbidity	T6075 Suspended Solids	T6080 Sludge Level	T6085 Ultrasonic liquid leveller	T6010 ION
Range	0.005~20.00mg/L	0~400~2000 ~4000NTU	0~500~5000mg/L; 0~50~100g/L (Extensible)	0.2~12m	0~5~10~15m or Customized	0~36500mg/L(ppm)
	Constant voltage/					
Principle	Potentiometric method	NTU、mg/L	mg/L、g/L	0.001m	Ultrasonic	Ion Electrode Method
Resolution	0.001mg/L	0.001NTU	0.001mg/L; 0.1g/L	±1%F.S	0.001m;	0.01mg/L (ppm)
Basic error	±1%F.S	±0.3℃	±0.3℃	≤3m/S	±1%F.S;	±2.5%
TEMP Comp				Manual or Automatic	Manual or Automatic	Manual or Automatic
Response Time	90% <90s			Adjustable		

200/500 Series Portable/Benchtop

Latest design, easy to operate
Readable LCD screen with backlight
One key to browse all the setting parameters
256 sets of data storage
10 minutes automatic shutdown without operation
Removable electrode bracket, left and right installation

pH /ORP Sensor

Please refer to the website for details

Conductivity/TDS/Salinity /Resistivity Sensor

Dissolved Oxygen

Fluorescence Dissolved oxygen

3-point automatic corrections zero offset, acid/alkal slope to ensure accurate range.
One button to view all the settings parameters, including the zero offset of the electrode, acid/alkal section, slope, and various settings of the instrument.

pH	Measuring Range	-2.00~20.00pH
	Resolution	0.01pH
	Accuracy	±0.01pH
ORP	Measuring Range	-2000mV~2000mV
	Resolution	1mV
	Accuracy	±1mV
Ion	Measuring Range	0.000~99999mg/L,ppm
	Resolution	0.001,0.01,0.1,1mg/L,ppm
	Accuracy	±1%(1 valence),±2%(2 valence), ±3%(3 valence)
Temp	Measuring Range	-40~126°C,-40~257°F
	Resolution	0.1°C,0.1°F
	Accuracy	±0.2°C,0.1°F
Buffer	Four	US,EU,CN,JP

One key to view all the setting state, including the constant of the electrode, slope, and various setting states of the instrument.
Calibration of standard liquid value input at any point

Conductivity	Measuring Range	0.000 uS/cm~400.0 mS/cm
	Resolution	0.001 uS/cm~0.1 mS/cm
	Accuracy	± 0.5% F.S.
TDS	Measuring Range	0.000 mg/L~400.0 g/L
	Resolution	0.001 mg/L~0.1 g/L
	Accuracy	± 0.5% F.S.
Salinity	Measuring Range	0.0 ~260.0 g/L
	Resolution	0.1 g/L
	Accuracy	± 0.5% F.S.
	SAL coefficient	0.65
Resistivity	Measuring Range	-
	Resolution	-
	Accuracy	-
	SAL coefficient	-
Temperature	Measuring Range	-10.0 °C~110.0 °C
	Resolution	0.1 °C
	Accuracy	± 0.2 °C

Optional Unit display:mg/L or %.
One key to check through all the settings status.
Clark polar electrode is standardized, without polarization, can be measured immediately on start.

Saturation Percentage	Range	0.0%~400.0%
	Resolution	0.1%
	Accuracy	±0.2% F.S.
Oxygen concentration	Range	0.00 mg/L~40.00 mg/L
	Resolution	0.01 mg/L
	Accuracy	±0.2% F.S.
Temperature	Range	Measurement:0.0 °C~50.0 °C
		Compensation:0.0 °C~60.0 °C
	Resolution	0.1 °C
	Accuracy	±0.2 °C
Atmospheric pressure	Range	600 mbar~1400 mbar
	Resolution	1 mbar
	Default	1013 mbar
Salinity	Range	0.0 g/L~40.0 g/L
	Resolution	0.1 g/L
	Default	0.0 g/L

Optional Unit display:mg/L or %.
One key to check through all the settings status.
Replaceable fluorescence dissolved oxygen film cap MS4060.

Oxygen Concentration	Range	0.00~20.00mg/L
	Resolution	0.01mg/L
	Accuracy	±0.5%F.S
Saturation Percentage	Range	0.0%~200.0%
	Resolution	0.1%
	Accuracy	±0.5%F.S
Temperature	Range	Measurement:0.0 °C~50.0 °C
		Compensation:0.0 °C~60.0 °C
	Resolution	0.1 °C
	Accuracy	±0.2 °C
Atmospheric pressure	Range	600 mbar~1400 mbar
	Resolution	1 mbar
	Default	1013 mbar
	Range	0.0 g/L~40.0 g/L
Salinity	Resolution	0.1 g/L
	Default	0.0 g/L

CS4060 Fluorescence 0-40 ppm
MS4060 Fluorescence DO Membrane Cap

twinno
www.twinno.net

P 7-8

30 Series Water Quality Tester

pH ORP Conductivity/TDS/Salinity/Resistivity
Dissolved Oxygen Free Chlorine Dissolved Ozone

- 4-Key easy operation, comfortable grip, all functions operated in one hand.
- Backlight screen, multi-line display for easy reading
- 5-10 minutes automatic shutdown without operation
- 1*1.5V AAA Batteries,easy to replace batteries and electrodes
- Floating Design,Waterproof Grade IP67
- Infinitely Extended Application Range

Temperature Range	0 - 100.0°C / 32 - 212 °F
Operating Temperature	0 - 60.0°C / 32 - 140 °F
Screen	20 * 30 mm multiple line LCD with backlight
Protection Grade	IP67
Auto backlight off	60 Seconds
Auto power off	10 Minutes
Power supply	1x1.5V AAA7 Battery
Dimensions	(HxWxD) 185x40x48 mm
Weight	95g

Single-handed pH meter

PH30 equipped with special electrodes for various environments, one-handed pH measurement, easy to do

NO230 — Nitrite

Precision measurement, simple and fast, temperature compensation
Not affected by low temperature, sample turbidity and color

Measuring Range	0.01-100.0 mg/L
Accuracy	0.01-0.1 mg/L
Temperature Range	5-40 °C
Temp. Compensation	Yes
Sample Demand	50 ml
Sample Treatment	pH<1.7
Application	Aquaculture, aquarium,food, beverage, drink water, surface water, sewage, waste water

NH330 — Ammonia

Precise, simple and fast with temperature compensation.
Not affected by low temperature, turbidity and color of samples.

Measuring Range	0.01 – 200 mg/L
Accuracy	0.01-0.1 mg/L
Temperature Range	5-40 °C
Temp. Compensation	Yes
Sample Demand	50 ml
Sample Treatment	pH>11
Application	Aquaculture, aquarium, food, beverage, drink water, surface water, sewage, waste water

CO230 — Carbon Dioxide

Precise, simple and quick, with temperature compensation.
Not affected by low temperature, turbidity and color of samples.

Measuring Range	4.50 -200.0 mg/L
Accuracy	0.01-0.1 mg/L
Temperature Range	5-40 °C
Temp. Compensation	Yes
Sample Demand	60ml
Sample Treatment	4.8<pH<5.2
Application	Beer, carbonated beverage, surface water, groundwater, aquaculture, photosynthesis

PH30 — pH

Extensive applications: PH30 meet your water measurement needs from 1ml micro sample testing to field throw measurement, skin or paper pH testing, etc.

pH Range	-2.00 ~ +16.00 pH
pH Resolution	0.01pH
pH Accuracy	±0.01pH
Temp. Resolution	0.1°C / 1°F
Calibration Point	Up to 3 (auto recognized)
Temp. Compensation	Auto / Manual
pH Buffer Kinds	USA: 4.01,7.00,10.01 NIST: 4.01,6.86,9.18
pH Electrode	CS1930 plane pH electrode

ORP30 — ORP

Self-replaceable planar platinum ring ORP electrode
Fast Corresponding, Precise, Easy to Clean and Maintenance

ORP Range	-1000 ~ +1000 mV
ORP Resolution	1mV
ORP Accuracy	±1mV
Temp. Resolution	0.1°C / 1°F
Operating Temp.	0 - 60.0°C / 32 - 140°F
Calibration	1 points
ORP Electrode	CS2980 platinum plane electrode

CON30 — Conductivity/TDS/Salinity/Resistivity

Range	0.0 µS/cm (ppm) - 20.00 mS/cm (ppt)
Resolution	0.1 µS/cm (ppm) - 0.01 mS/cm (ppt)
Accuracy	±1% F.S.
Temp. Compensation	0.0 - 60.0 °C
Temp. Compensation Type	Auto/Manual
Solution Temp. Coefficient	0.00 - 10.00% (default 2.00%)
Reference Temp.	16.0 - 30.0°C (default 25 °C)
Calibration	Any 1 Point Calibration
TDS Range	0.0 mg/L (ppm) - 20.00 g/L (ppt)
TDS Coefficient	0.40 - 1.00 Adjustable (default0.5)
Salinity Range	0.0 mg/L (ppm) - 18.00 g/L (ppt)
Salinity Coefficient	0.48—0.55,adjustable (default 0.55)
Probe	CS3931 Graphite , K=1.0

DO30 — Dissolved Oxygen

Automatic Compensation after Salinity/Atmospheric Pressure Input
User-selfreplaceable electrodes and membrane cap

Measuring Range	0.00 - 20.00 ppm; 0.0 - 200.0%
Resolution	0.01 ppm;0.1%
Accuracy	±2% F.S
Auto Temp. Compensation	0 - 60.0°C
Calibration	1 or 2 point auto calibrate
Salinity Compensation	0.0 - 40.0 ppt
Barometric Compensation	600 - 1100 mbar

FCL30 — Free Chlorine

Use tri-electroded method measuring residual chlorine concentration,faster and accurate. Matching up to DPD results,without consumables and easy to maintain.

Measuring Range	0-10mg/L
Resolution	0.01mg/L
Accuracy	±1%F.S
Working Temperature	0 - 60.0°C/ 32 - 140°F
Calibration	2 points (0, any point)
Lock Function	Auto/Manual
Electrode	CS6930

DOZ30 — Dissolved Ozone

Matching up to DPD results,without consumables and easy to maintain.

Measuring Range	0-10.00 mg/L
Resolution	0.01mg/L
Accuracy	±1% F.S.
Calibration Point	2 points(0, any point)
Lock function	Auto / Manual
Electrode	CS6930

Customize sensors to meet your needs

Process Sensors

P1-2 related instruments
Details see our website

5 Series
PG13.5 thread
5m cable /BNC
Protection Level IP68
Temperature optional

7 Series
NPT 3/4" thread
PP/PPS Shell
5m cable /BNC
Protection Level IP68
Temperature optional

T6000/T4000 pH /ORP Sensor

Digital

1	CS1700 General purpose -no temp. compensation	
2	CS1701 General purpose - temp. compensation	
3	CS2700 ORP,General purpose -no temp. compensation	
4	CS2701 ORP,General purpose -temp. compensation	
5	CS1628 for HF containing media	CS1628D
6	CS1529 for Seawater & Seawater related	CS1529D
7	CS1543 for Strong acid/ alkaline chemical process	CS1543D
8	CS1568 SNEX,for Sludge, Viscous Fluids, Paint, Sugar Process	
9	CS1597 Non- aqueous media(organic phase)	CS1597D
10	CS1768 SNEX, for high pressure pipeline	CS1768D
11	CS1778 SNEX, for flue gas desulfurization process	CS1776D
12	CS1788 SNEX, for pure Water/ Low ion concentration water	CS1788D
13	CS1753 for Chemical Process	CS1753D
14	CS1540 for tough environment use	
15	CS1668 for Sludge, Viscous Fluids, Hydrogen sulfide media	
16	CS1628 for HF concentration<1000ppm	
17	CS1728 for HF concentration<1000ppm	
18	CS1733 for industrial waste water, environmental protection sewage	
19	CS1637 for HF concentration >1000ppm	
20	CS1737 for HF concentration >1000ppm	
21	CS1549 for high temperature	
22	CS2543 ORP, for general use	CS2543D
23	CS2733 ORP, for general use	CS2733D
24	CS2768 ORP, for complex industrial environment	CS2768D

T6030/T4030 Conductivity/TDS/Salinity/Resistivity Sensor

Digital

CS3701	K=1	1 μS/cm - 10 mS/cm PP Shell	CS3701D
CS3500	K=1	1 μS/cm - 10 mS/cm Glass Shell	CS3500D
CS3540	K=0.4	0.5 μS/cm - 40 mS/cm 4-Electrodes	CS3540D
CS3740	K=0.4	0.6 μS/cm - 40 mS/cm 4-Electrodes	CS3740D
CS3521	K=1	1 μS/cm - 10 mS/cm Stainless Shell	CS3021D
CS3522	K=0.1	0.1 - 100.0 μS/cm Stainless Shell	CS3022D
CS3523	K=0.01	0.00 - 2.00 μS/cm Stainless Shell	CS3023D
CS3510	K=10	10 - 200.0 mS/cm Stainless Shell	CS3010D

T6040/T4040 Dissolved Oxygen Sensor

Digital

CS4551	0 - 40 ppm replaceable membrane cap	CS4551D
CS4751	0 - 40 ppm replaceable membrane cap	CS4751D
CS4763	0 - 40 ppm replaceable steel and membrane cap	CS4763D
CS4773	0 - 40 ppm replaceable steel and membrane cap	CS4773D

MS4763
Steel Mesh
Semi-permeable
Membrane Cap

T6058/T4058 Dissolved Ozone Sensor

Digital

CS6530 0 - 2.000 mg/L, 0 - 20.00 mg/L CS6530D

T6050/T4050 Free Chlorine Sensor

Digital

CS5530 0 - 2.000 mg/L, 0 - 20.00 mg/L CS5530D

T6046/T4046 Fluorescence Dissolved Oxygen Sensor

CS4760D 0 - 20 ppm
MS4760 Fluorescence DO Membrane Cap

T6070 Turbidity Sensor

1 Low CS7800D 0 – 20NTU
2 Low CS7801D 0 ~ 200NTU
3 Middle CS7820D 0 – 400NTU
4 Middle CS7821D 0 ~ 2000NTU
5 High CS7830D 0 – 4000NTU

T6075 suspended solids Sensor

3 Middle CS7850D 0 – 500mg/L
4 Middle CS7851D 0 ~ 5000mg/L
5 High CS7860D 0 – 50g/L
6 High CS7861D 0 ~ 100g/L

T6010 Ion Sensor

CS6010D Fluoride Ion Sensor
CS6011D Chloride Ion Sensor
CS6015D Ammonia Nitrogen
CS6018D Nitrogen Ion Sensor
CS6019D Hardness Ion Sensor

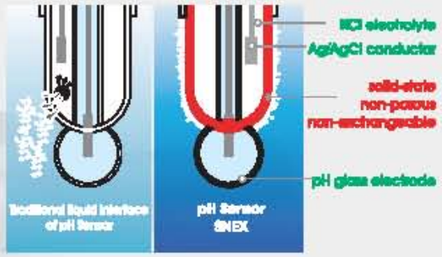
T6085 Ultrasonic Level Sensor

T6080 Sludge Interface

T6600 COD Sensor

CS6600D Optical COD Sensor

Revolutionary "SNEX solid-state, non-exchange reference electrode system": break the life span limit of the traditional porous-liquid-junction pH sensors.

Application: Sludge, Viscous Fluids Protein, hydrogen sulfide, Cold Low Ionic Water Silicates, Chromates, Cyanide, Sea water, Brine, Mining, Petrochemical, liquefied natural gas.

SNEX, solid-state, non-exchange reference electrode system: It uses a highly stable non-porous polymeric interface in place of the traditional porous liquid junction. The electrochemical active reference area is the whole of the outside surface of the electrode, this super large contact area means that the electrode is supremely resistant to coatings. Poisoning effects are eliminated because the polymeric reference material is ionicly conductive, but is not porous, consequently electrolyte and process fluids are not exchanged.
The advanced solid-state nature of SNEX reference electrodes mean they remain extremely accurate and reliable across a wide range of conditions, Including: Temperature: 0 to 90°C, Pressure: 0 to 20 bar.
SNEX: stable and longer life span, lower calibration and maintenance cost.