

pH Transmitter



Online pH/ORP Meter T6500

Function

Industrial on-line PH/ORP meter is an on-line water quality monitoring and control instrument with microprocessor.

PH electrodes or ORP electrodes of different types are widely used in power plant, petrochemical industry, metallurgical electronics, mining industry, paper industry, biological fermentation engineering, medicine, food and beverage, environmental water treatment, aquaculture, modern agriculture, etc.

The pH (acid, alkalinity) value, ORP (oxidation, reduction potential) value and temperature value of aqueous solution were continuously monitored and controlled.

Typical Use

The instrument is equipped with different types of pH or ORP sensors. Widely used in power plants, petrochemical industry, metallurgical electronics, mining, paper industry, biological fermentation engineering, medicine, food and beverage, environmental protection water treatment, aquaculture, modern agricultural planting and other industries. The pH (acidity and alkalinity) value, ORP (redox potential) value and temperature value of water solution were continuously monitored and controlled.

Mains Supply

85~265VAC \pm 10%,50 \pm 1Hz, power \leq 3W;

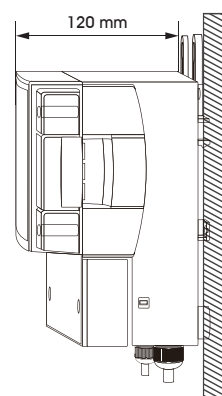
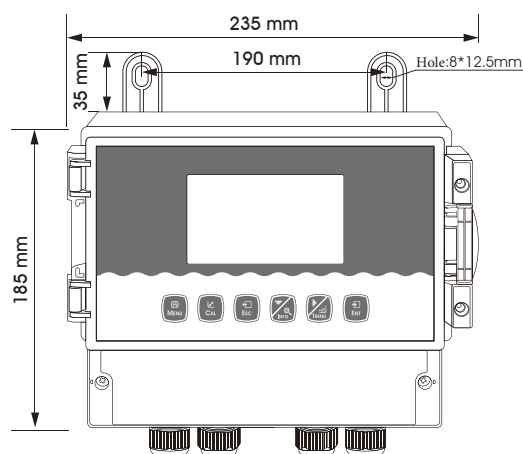
9~36VDC, power consumption \leq 3W;

Measuring Range

pH: -2~16.00pH;

ORP: -2000~+2000mV;

Temperature: -10~150.0 °C ;



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Features

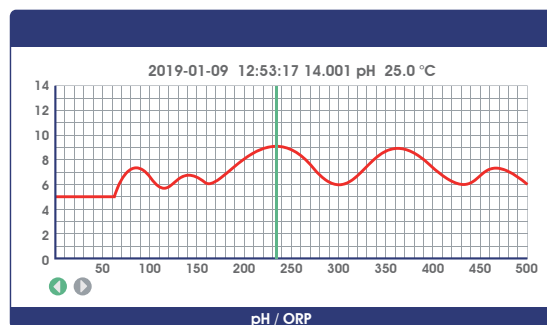
1. Color LCD display
2. Intelligent menu operation
3. Multiple automatic calibration
4. Differential signal measurement mode, stable and reliable
5. Manual and automatic temperature compensation
6. Three relay control switches
7. 4-20mA & RS485, Multiple output modes
8. Multi parameter display simultaneously shows – pH/ ORP, Temp, current, etc.
9. Password protection to prevent misoperation by non-staff.
10. The matching installation accessories make the installation of the controller in complex working conditions more stable and reliable.
11. High & low alarm and hysteresis control. Various alarm outputs. In addition to the standard two-way normally open contact design, the option of normally closed contacts is also added to make the dosing control more targeted.
12. The 6-terminal waterproof sealing joint effectively prevents water vapor from entering, and isolates the input, output and power supply, and the stability is greatly improved. High resilience silicone keys, easy to use, can use combination keys, easier to operate.
13. The outer shell is coated with protective metal paint, and safety capacitors are added to the power board, which improves the strong magnetic anti-interference ability of industrial field equipment. The shell is made of PPS material for more corrosion resistance. The sealed and waterproof back cover can effectively prevent water vapor from entering, dustproof, waterproof, and corrosion-proof, which greatly improves the protection capability of the whole machine.



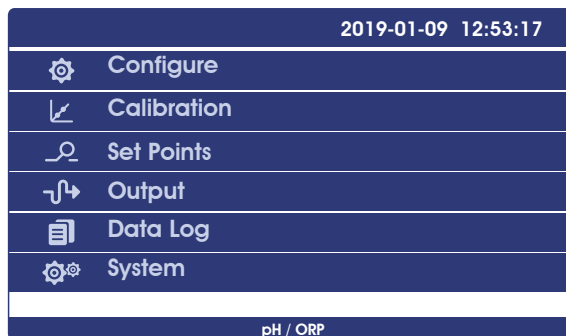
Measurement mode



Calibration mode



Trend chart

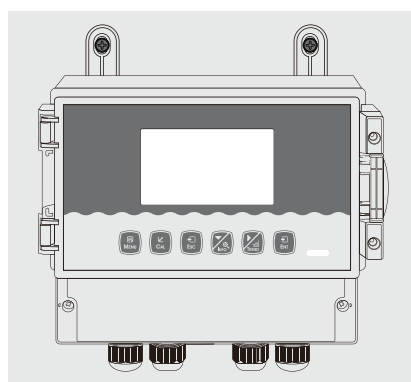
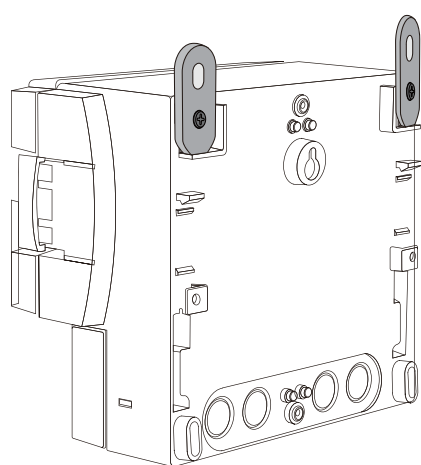


Setting mode

Electrical connections

Electrical connection The connection between the instrument and the sensor: the power supply, output signal, relay alarm contact and the connection between the sensor and the instrument are all inside the instrument. The length of the lead wire for the fixed electrode is usually 5-10 meters, and the corresponding label or color on the sensor Insert the wire into the corresponding terminal inside the instrument and tighten it.

Instrument installation method



Technical specifications

Measuring range	-2~16.00pH; -2000~+2000mV
Measure Unit	pH、mV
Resolution	0.001pH; 1mV
Basic error	±0.01pH; ±1mV;
Temperature	-10~150.0°C(it is based on the electrode)
Temperature resolution	0.1°C
Temperature basic error	±0.3°C
Working temperature	0~150°C
Temperature compensation	Automatic or manual
Stability	pH: ≤0.01pH/24h; CRP: ≤1mV/24h;
Current output	3 Rd 4~20mA, 20~4mA, 0~20mA
Communication output	RS485 Modbus RTU
Other functions	Data record/curve display/data upload
Relay control contacts	3 Group: 5A 250VAC, 5A 30VDC
Optional power supply	85~265VAC, 9~36VDC, Power: ≤3W
Working environment	There is no strong magnetic interference besides the earth
Ambient temperature	-10~60°C
Relative humidity	No more than 90%
Protection level	IP65
Instrument Weight	1.5kg
Dimensions	235×185×120mm
Installation	Wall mounted



CS1753 pH Sensor

Designed for strong acid, strong base, waste water and chemical process.

- CS1753 pH electrode adopt the most advanced solid dielectric in the world and large-area PTFE liquid junction. Not easy to block, easy to maintain.
- The long-distance reference diffusion path greatly prolongs the service life of the electrode in harsh environments. With built-in temperature sensor (NTC10K, Pt100, Pt1000, etc. can be selected according to user requirements) and wide temperature range, it can be used in explosion-proof areas.
- The newly designed glass bulb increases the bulb area, prevents the generation of interfering bubbles in the internal buffer, and makes the measurement more reliable. Adopt PPS/PC shell, upper and lower 3/4NPT pipe thread, easy to install, no need for sheath, and low installation cost. The electrode is integrated with pH, reference, solution grounding, and temperature compensation.
- The electrode adopts high-quality low-noise cable, which can make the signal output longer than 20 meters without interference.
- The electrode is made of ultra-bottom impedance-sensitive glass film, and it also has the characteristics of fast response, accurate measurement, good stability, and not easy to hydrolyze in the case of low conductivity and high purity water.

Model No.	CS1753
pH zero point	7.00±0.25pH
Reference system	SNEX Ag/AgCl/KCl
Electrolyte solution	3.3M KCl
Membrane resistance	<600MΩ
Housing material	PP
Liquid junction	SNEX
Waterproof grade	IP68
Measurement range	0-14pH
Accuracy	±0.05pH
Pressure resistance	≤0.6Mpa
Temperature compensation	NTC10K,PT100,PT1000 (Optional)
Temperature range	0-80℃
Calibration	Sample calibration, standard liquid calibration
Double Junction	Yes
Cable length	Standard 10m cable, can be extended to 100m
Installation thread	NPT3/4"
Application	Strong acid, strong base,waste water and chemical process