DATASHEET

Water Analysis

Water Quality Online Monitoring Controller

Model PT6500, PT6700 Series

PT6500 Series

PT6700 Series Dual Parameters

Multi-parameters Water Quality Online Automatic Monitoring

Description

Industrial online PH/ORP meter is an online water quality monitoring and control instrument with a microprocessor. The instrument is equipped with different types of pH electrodes or ORP electrodes and is widely used in various industries such as power plants, petrochemicals, metallurgy and electronics, mining, papermaking, biological fermentation engineering, medicine, food and beverage, environmental water treatment, aquaculture, modern agricultural planting, etc. It continuously monitors and controls the pH (acidity, alkalinity) value, ORP (oxidation, reduction potential) value and temperature value of the aqueous solution.

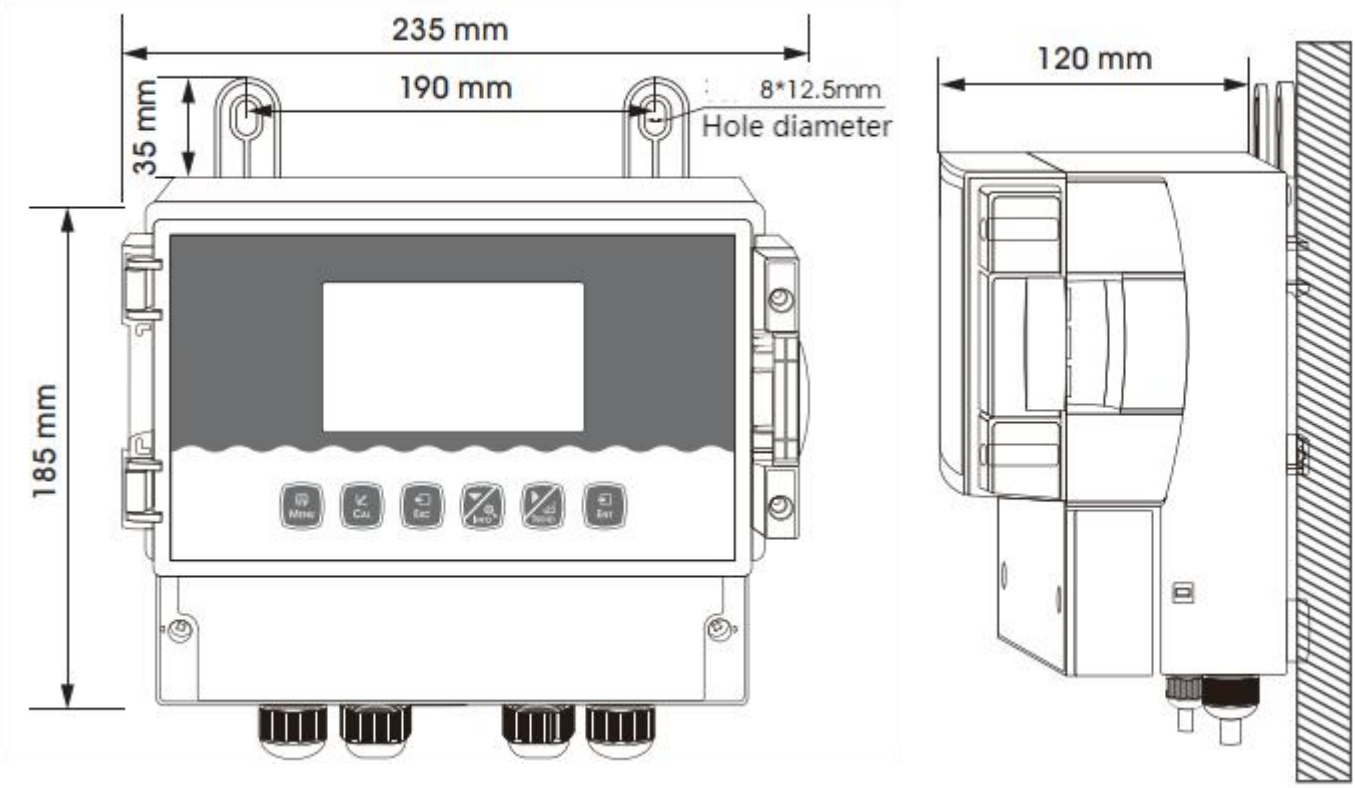
Features

- Full-color screen, multi-line display
- Data logging/trend chart display
- Panel installation and wall installation both
- Multiple automatic calibration functions
- Three sets of relay control switches
- High limit, low limit, hysteresis control
- 4-20mA/RS485 multiple connection methods
- Password protection to prevent non-staff from misoperation

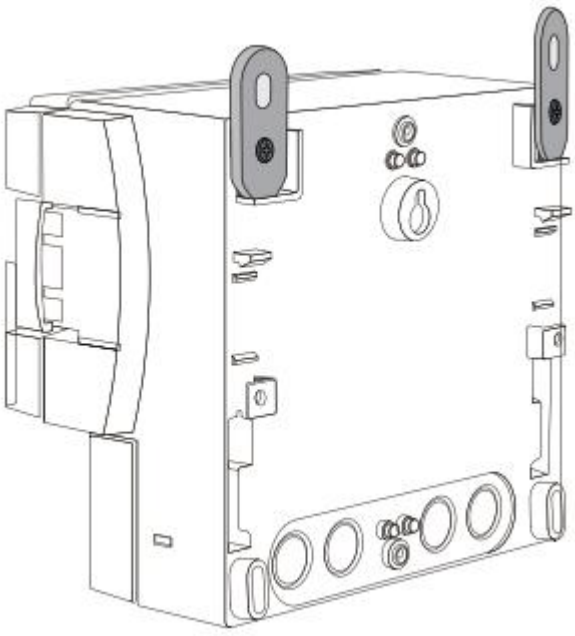
Specifications

Parameters	Configuration
Temperature	-10～150 ℃(According to electrode)
Temperature Resolution	0.1℃
Temperature Error	±0.3℃
Temperature Compensation Range	0～150℃
Temperature Compensation	Automatically or manually
Current Output	2 channels of 4～20mA, 20～4mA, 0～20mA
Communication Output	RS485 Modbus RTU
Other Function	Data logging/Trend charting
Relay Control Contact	Three groups: 5A 240VAC; 5A 28VDC or 120VAC
Optional Power Supply	85～265VAC; 9～36VDC. Power: ≤3W
Working Environment	No strong magnetic field interference around except the earth's magnetic field
Ambient Temperature	-10～60℃
Relative Humidity	≤90%
Protection Level	IP65
Instrument Weight	1.5kg
Instrument Dimensions	235 × 185 × 120mm
Instrument Installation Method	Wall mounted

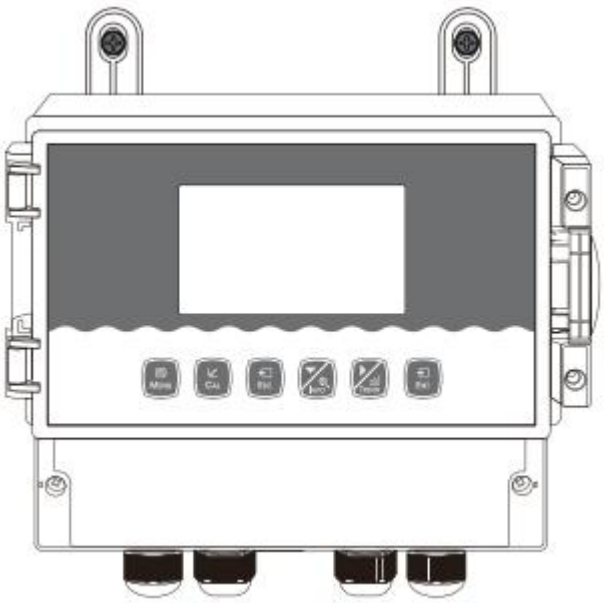
Dimension



Installation



Install the controller with fixed plate



Installation completed diagram

Model Selection Table

Monitoring Factor	PT6500 Series	Range	Resolution	Accuracy	Stability
pH/ORP	PT6500	-2-16pH;±2000mV	0.001pH;1mV	±0.01pH; ±1mV	≤0.01pH/24h; ≤1mV/24h
Ion	PT6510	0-99999mg/L	0.01mg/L	±2.5%	-
Conductivity Resistivity TDS Salinity	PT6530	0-500ms/cm 0-18.82MΩ/cm 0-250g/L 0-700ppt	0.01μS/cm;0.01mS/cm 0.01KΩ/cm;0.01MΩ/cm 0.01mg/L;0.01g/L 0.01PPT;0.1%;0.01mg/L	±0.5%F.S	±0.2%F.S/24h
Acid, Alkali and Salt Concentration	PT6536	NAOH:0-16% CaCL2:0-22% NACL/HNO3/HCL/H2SO4:0-10%	0.01%	±0.25%	±0.25%/24h
Electromagnetic conductivity	PT6538	0～2000mS/cm 0～1000g/L See chemical concentration table	0.01μS/cm;0.01mS/cm 0.01mg/L;0.01g/L Concentration 0.01%;	±0.5%FS Concentration 0.2%;	±0.2%F.S/24h
Polarographic Dissolved Oxygen	PT6540	0-40mg/L,0-400%	0.01mg/L;0.1%	±1%F.S	＜2%F.S/week
Trace Dissolved Oxygen	PT6542	0-200μg/L-20.0mg/L	0.1μg/L;0.01mg/L	±1%F.S	＜2%F.S/week
Fluorescent Dissolved Oxygen	PT6546	0-20.0mg/L;0-100%	0.01mg/L;0.1%	±1%F.S	＜2%F.S/week
Turbidimeter	PT6570	0.001-9999NTU	0.001NTU	±1%F.S	-
Suspended Solids Concentration	PT6575	5.00-50000mg/L	0.01mg/L;0.01g/L	±1%F.S	-
Constant Pressure Residual Chlorine Meter	PT6550	0-20.00mg/L(ppm)	0.001mg/L	±1%F.S	Responding time: 90%＜90s
Membrane Residual Chlorine Meter	PT6555	0-10.00-20.00mg/L pH:0～14.00pH	0.001mg/L pH:0.01pH	±1%F.S pH:±0.05pH	Responding time: 90%＜90s
Constant Pressure Chlorine Dioxide	PT6553	0-20mg/L	0.001mg/L	±1%F.S	Responding time: 90%＜90s
Constant Pressure Ozone	PT6558	0-20mg/L	0.001mg/L	±1%F.S	Responding time: 90%＜90s
Mud Level Universal	PT6580 PSC6500	0.2-12m	0.001m	±1%F.S	Velocity:≤3m/s