DATASHEET

Water Analysis

Water Quality Online Monitoring Controller
Model PT4000 Series

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.

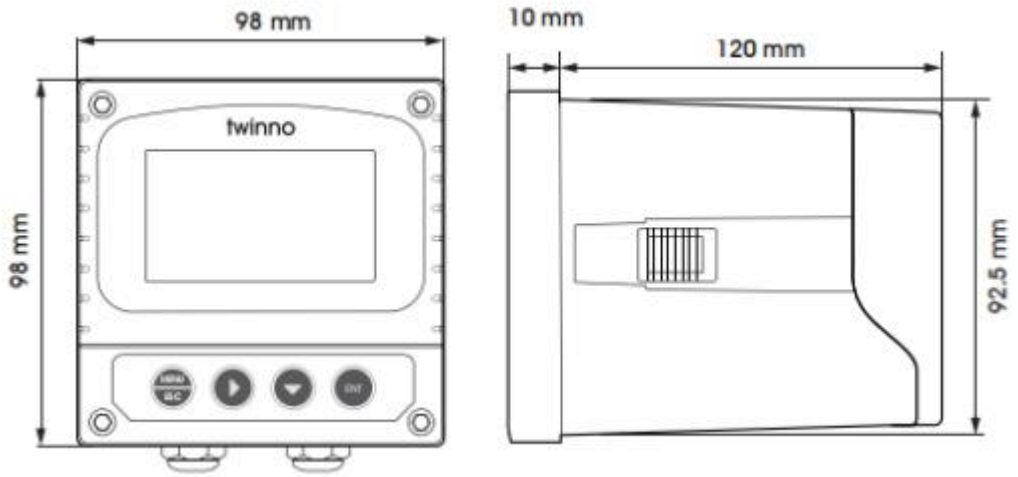
Features

- LCD color display
- Intelligent menu operation
- Multiple automatic calibration functions
- Manual and automatic temperature compensation
- Two sets of relay control switches
- High limit, low limit, hysteresis control
- Same interface display of pH/ORP, temperature, status, etc.
- Password protection to prevent non-staff from misoperation

Specifications

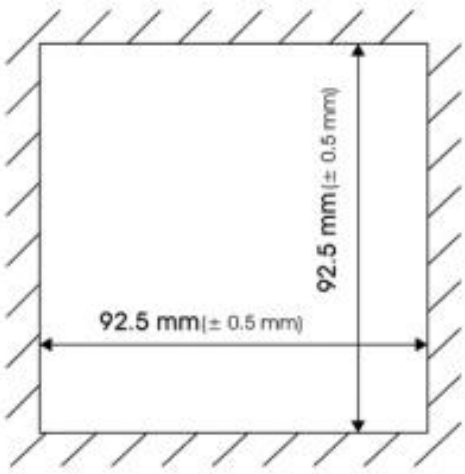
Parameters	Configuration
Temperature	-10～150 ℃(According to electrode)
Temperature Resolution	0.1℃
Temperature Error	±0.3℃
Temperature Compensation Range	0～150℃
Temperature Compensation	Automatically or manually
Current Output	2 channels of 4～20mA, 20～4mA, 0～20mA
Communication Output	RS485 Modbus RTU
Relay Control Contact	Two groups: 3A 250VAC, 3A 30VDC
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	0.6kg
Instrument Dimensions	98 × 98 × 130mm
Installation Opening Dimensions	92.5 × 92.5mm
Instrument Installation Method	Embedded type Wall-mounted type

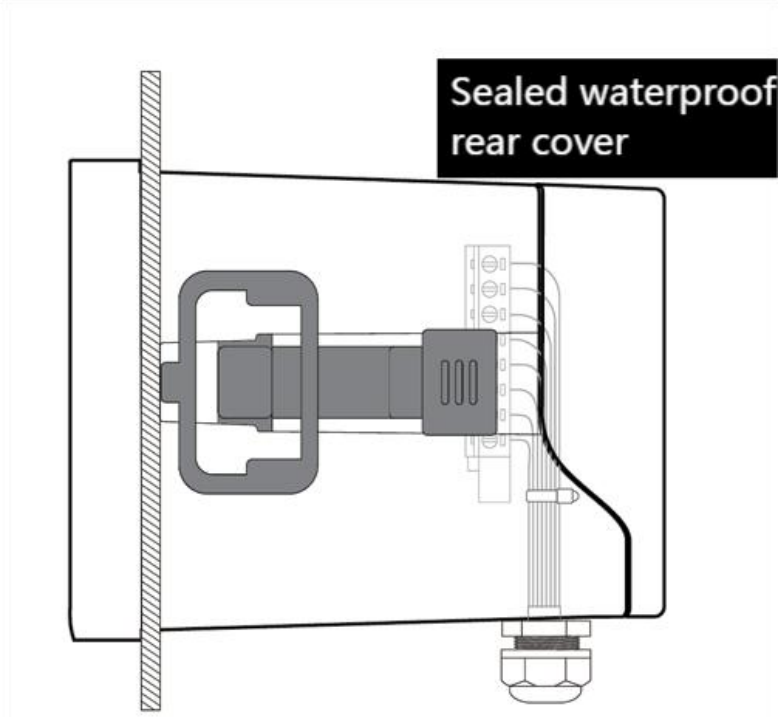
Dimension



Installation Method

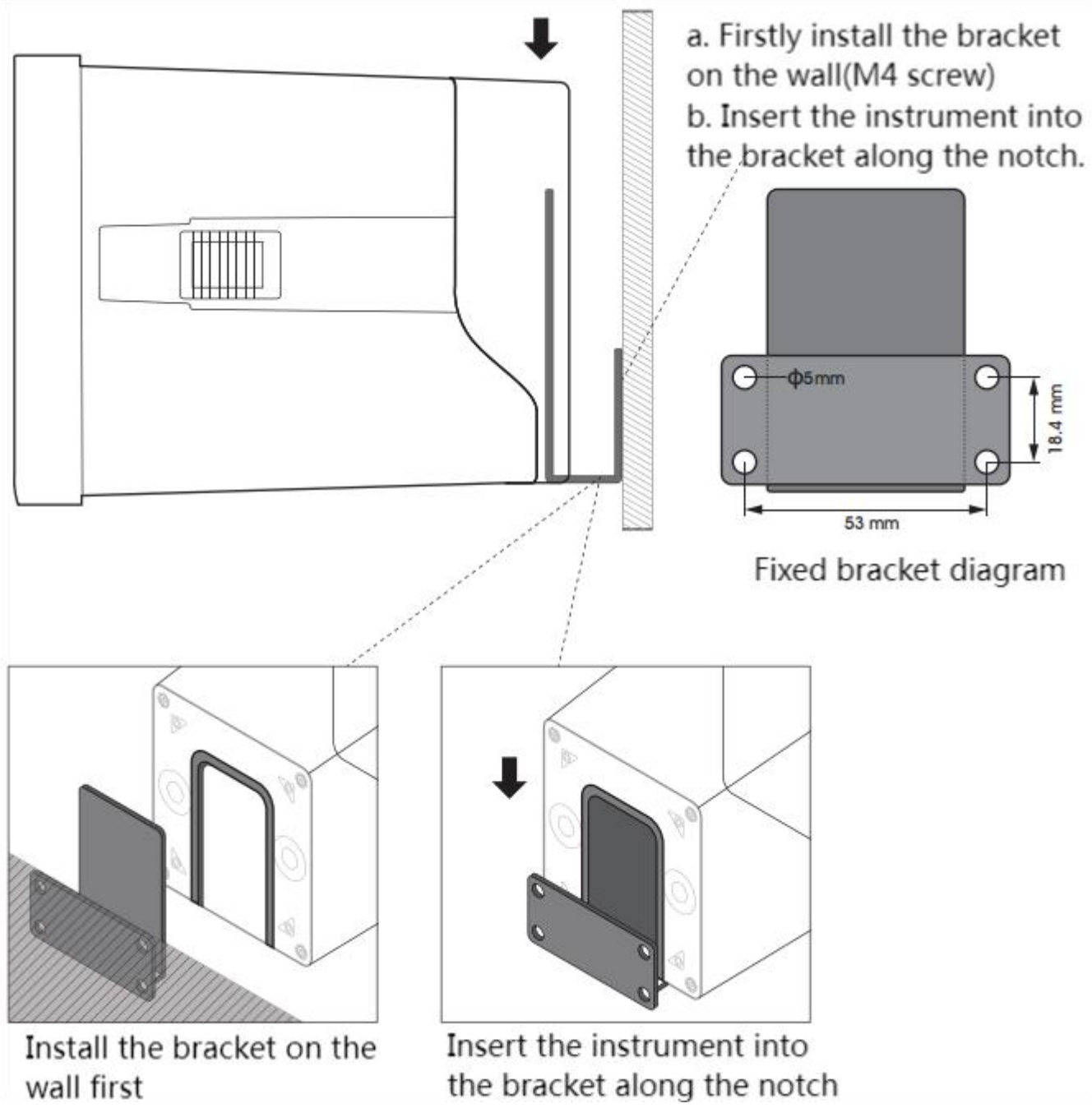
1. Panel Installation





Insert the instrument into the square hole and fix it with the configured buckle.

2. Wall Mounting Installation



Model Selection Table

Monitoring Factor	PT4000 Series	Range	Resolution	Accuracy	Stability
pH/ORP	PT4000	0-14pH; ±2000mV	0.01pH;1mV	±0.02pH; ±2mV	≤0.02pH/24h; ≤2mV/24h
Lon	PT4010	0-99999mg/L	0.01mg/L	±2.5%	-
Conductivity	PT4030	0-500ms/cm	0.01μS/cm;0.01mS/cm	±0.5%F.S	±0.2%F.S/24h
Resistivity		0-18.82MΩ/cm	0.01KΩ/cm;0.01MΩ/cm		
TDS		0-250g/L	0.01mg/L;0.01g/L		
Salinity		0-700ppt	0.01PPT;0.1%;0.01mg/L		
Acid, Alkali and Salt Concentration	PT4036	NAOH: 0-16% CaCL2: 0-22% NACL/HNO3/HCL/H2SO4: 0-10%	0.01%	±0.25%	±0.25%/24h
Polarographic Dissolved Oxygen	PT4040	0-20mg/L,0-100%	0.01mg/L;0.1%	±1%F.S	＜2%F.S/week
Trace Dissolved Oxygen	PT4042	0-200μg/L-20.0mg/L	0.1μg/L; 0.01mg/L	±1%F.S	＜2%F.S/week
Fluorescent Dissolved Oxygen	PT4046	0-20.0mg/L; 0-100%	0.01mg/L; 0.1%	±1%F.S	＜2%F.S/week
Turbidimeter	PT4070	0.001-9999NTU	0.001NTU	±1%F.S	-
Suspended Solids Concentration	PT4075	0-50000mg/L	0.01mg/L; 0.01g/L	±1%F.S	-
Constant Pressure Residual Chlorine Meter	PT4050	0-20.00mg/L(ppm)	0.001mg/L	±1%F.S	Responding time: 90%＜90s
Membrane Residual Chlorine Meter	PT4055	0-10.00-20.00mg/L	0.001mg/L	±1%F.S	Responding time: 90%＜90s
		pH: 0～14.00pH	pH: 0.01pH	pH:±0.05pH	Responding time: 90%＜90s
Constant Pressure Chlorine Dioxide	PT4053	0-20mg/L	0.001mg/L	±1%F.S	Responding time: 90%＜90s
Constant Pressure Ozone	PT4058	0-20mg/L	0.001mg/L	±1%F.S	＜2%F.S/week
Universal	PSC4000				