



PH/ORP

“
ONLINE INDUSTRIAL METER

DALIAN TAIJIA TECHNOLOGY CO., LTD
We are devoted to industrial solutions & Analysis

CATALOG



Introduction

The industrial online PH/ORP meter is one of the intelligent online chemical analyzers developed by our company. It has strong environmental adaptability, clear display, simple operation and excellent test performance, making it highly cost effective and can accurately measure the pH value and temperature of the solution.

It can be widely used in continuous monitoring of pH value in solutions such as thermal power, chemical fertilizers, metallurgy, environmental protection, pharmaceuticals, biochemistry, food and tap water. It is also a precise ORP meter when equipped with an ORP redox electrode.

▼ JB/T 6203-2017
"Industrial pH Meter"





02 Feature

High intelligence: The industrial pH meter adopts high-precision AD conversion and single-chip microprocessor technology, which can complete pH value measurement, temperature measurement, automatic temperature compensation and other functions.

Data storage: The built-in storage chip of the instrument can save historical data of the past three days, which is convenient for users to find.

Flushing relay (optional): The instrument is equipped with a flushing relay, which can be installed by installing a solenoid valve to clean the pH electrode regularly.

25°C conversion: The pure water and ammonia-added ultrapure water are converted to the 25°C reference temperature, realizing the display of the pH value at 25°C, which is particularly suitable for the measurement of various water qualities in power plants.

Strong anti-interference ability: Using the latest devices, the impedance is as high as 1012Ω; the current output adopts optical coupling isolation technology, which has strong anti-interference ability and realizes remote transmission. It has good electromagnetic compatibility.

Time display: The online pH meter has a built-in clock chip that can display the current time.

Multi-parameter simultaneous display: time, pH value or mV value, temperature, output current value, high and low alarm values and alarm status are displayed on the LCD screen at the same time. High-brightness 128*64 LCD display module is adopted, which is eye-catching and has a long viewing distance.





• 4-20mA output



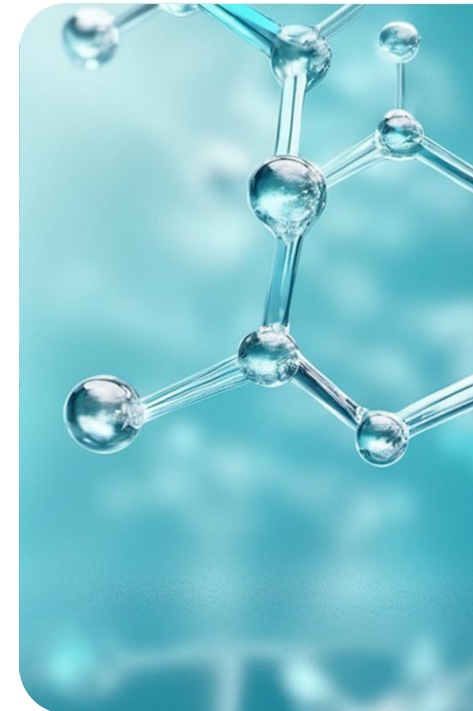
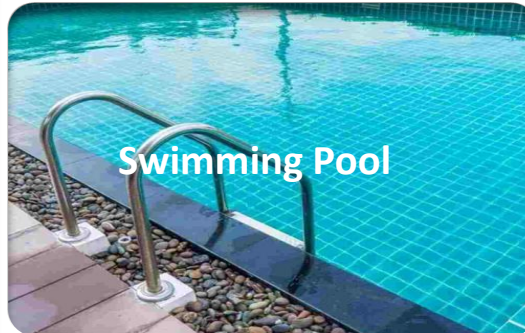
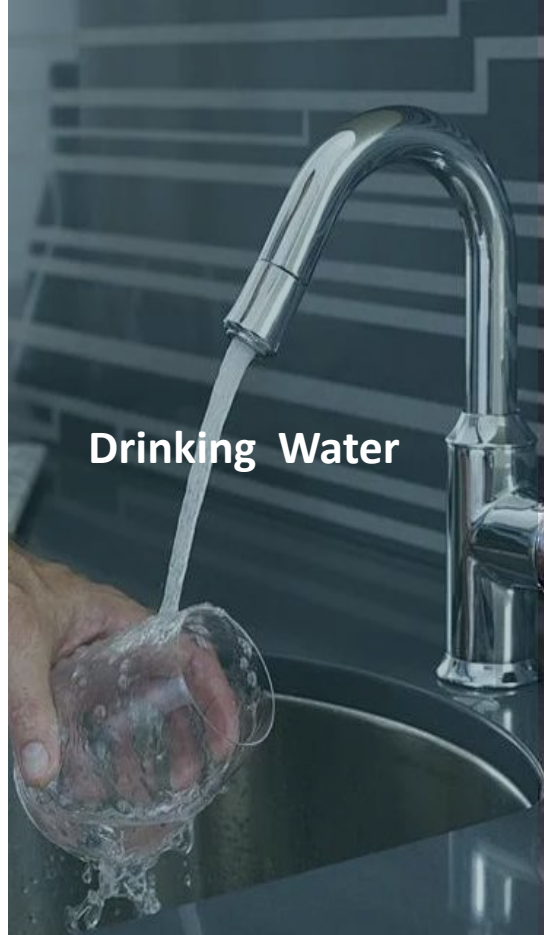
• RS485 output

Upgrade to color screen

| | |
|--|---|
| Product model | PH-501 |
| PH measurement range | 0~14.00PH (maximum -2-16PH); Graduation value: 0.01PH; |
| ORP measurement range | -2000~+2000mV; Graduation value:1mV; |
| Temperature measurement range | 0~99.9°C (Max-10~120°C) ; Graduation value: 0.1°C |
| PH measurement accuracy | ±0.2PH |
| ORP measurement accuracy | ±1mV |
| Temperature measurement accuracy | ±0.5°C |
| Automatic temperature compensation range | 0~99.9°C, 25°C as the reference |
| Electronic unit repeatability error | ±0.02PH |
| Stability | ±0.02PH/24h; |
| Input Impedance | ≥10 ¹² Ω; |
| Galvanic isolation output | 4~20mA (optional: RS485 MODBUS) |
| Output current error | ≤ ±1% FS |
| High and low alarm relay | AC220V, 3A |
| Data Storage | 72 points, three days of data |
| RS485 communication interface | This function is optional; MODBUS RTU Protocol, Isolation |
| Power supply | AC220V±22V , 50±10Hz; optional DC24V±2.4V |
| Protection level | IP54 |
| Dimensions | 96 (L) ×96 (W) ×120 (D) mm |
| Instrument weight | Transmitter: 0.6kg |
| Working conditions | Environment Temperature: 0~60°C , relative humidity: <85% |
| Electrode cable length | Standard: 5m cable can be equipped with three-composite or two-composite electrodes. |

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Widely Application



Contact Us

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