

WMPH1001-FM industrial pH meter is our latest generation of microprocessor-based instrument, with English display, menu operation, a high intelligent, multi-function, high measurement performance, environmental adaptability and other characteristics. It is a highly intelligent online continuous monitoring instrument, integrated with the sensor and the second meter. Can be equipped with three composite or two composite electrodes to meet a variety of sites.

Applications

Continuous monitoring of pH values in

- Thermal power plants
- Chemical fertilizer production
- Metallurgy
- Environmental protection
- Pharmacy
- Biochemical engineering
- F&B and drinking water
- Wastewater and many other industries.



Features

- **Intelligent:** This industrial PH meter adopts high-precision AD conversion and single chip microcomputer processing technologies and can be used for the measurement of the PH values and temperature, automatic temperature compensation and self-checking.
- **Reliability:** All the components are arranged on one circuit board. No complicated functional switch, adjusting knob or potentiometer arranged on this instrument.
- **Double high impedance input:** The latest components are adopted; the impedance of the double high impedance input can reach as high as $10^{12}\Omega$. It has strong interference immunity.
- **Solution grounding:** This can eliminate all the disturbance of the ground circuit.
- **Isolated current output:** Optoelectronic isolating technology is adopted. This meter has strong interference immunity and the capacity of long-distance transmission.
- **Communication interface:** it can be easily connected to a computer to perform monitoring and communication.
- **Automatic temperature compensation:** It performs automatic temperature compensation when the temperature is within the range of 0~99.9°C.
- **Water proof and dust-proof design:** Its protection grade is IP54. It is applicable for outdoor use.
- **Display, menu and notepad:** It adopts menu operation, which is like that in a computer. It can be easily operated only according to the prompts and without guidance of the operation manual.
- **Multi-parameter display:** The PH values, input mV values (or output current values), temperature, time and status can be displayed on the screen at the same time.
- **Electrode:** Can be equipped with a 3-in-1/2-in-1 electrode.
- Can be used for ORP with change of programme.

Technical Specification

Specification	
Measuring range	pH measurement: 0~14.00 pH Resolution 0.01 pH Temperature: 0~99.9 °C Resolution 0.1 °C Electric potential: ±1999.9 mV Resolution 0.1 mV
Temperature of sample	0~99.9 °C
Pressure	0~6 Bar
Automatic temp. compensation	0~99.9 °C, 25 °C ref.
Automatic temp. compensation error	±0.03 pH
Accuracy	±0.02 pH
Stability	±0.02 pH/24hr
Input impedance	≥1×10 ¹² Ω
Clock Accuracy	±1 min/month
Current Output	0~10mA (load <15kΩ); 4~20mA (load <750Ω)
Output Current Error	≤1% FS
Data storage capacity	1 month (1point/5mins)
High and low alarms relays	AC 220V, 3A
Communication interface	RS485, 232(optional)
Power supply	AC 220V±22V, 50 Hz±1Hz, 24V DC (optional)
Protection grade	IP54, Aluminium shell for outdoor use
Dimensions	Overall: 146 (l) x 146 (w) x 156 (d) mm Holes: 138 x 138 mm
Weight	1.5kg
Working conditions	Ambient temp: 0~60 °C Relative humidity: <85%