



Dual-Channel pH &ORP Meter

Model : PHG-2091D



1. Description

Online pH&ORP meter (hereinafter referred to as instrument) is a water quality online monitor for pH and ORP with microprocessor. The instrument configuration of different types, different constant ORP electrode and the different types of pH electrode for the water conductivity of solution, pH value and temperature value of continuous monitoring and control.

The instrument adopts LCD liquid crystal display, intelligent English menu operation, with current or voltage output, free setting of measurement range, high and low limit alarm prompt and two sets of relay control switches, adjustable hysteresis range, automatic or manual temperature compensation.

2. Features

- ※ Intelligent: using single chip microprocessor to complete the value of the conductivity of PH, temperature measurement and compensation;
- ※ The man-machine dialogue menu operation structure, users follow the prompts on the screen can operate;
- ※ The multi screen display and display parameters: conductivity value, temperature and working condition;
- ※ The software to set the output mode: software 0 ~ 20mA or 4 ~ 20mA, 20 ~ 4mA output;
- ※ The calibration of various optional;
- ※ The measuring range and limit alarm, set free, overrun alarm limit;
- ※ The two group of relay control, hysteresis control range is adjustable;
- ※ The password and service guide or self: the user can modify the password, to avoid irrelevant personnel into the misoperation; provide technical support and customer service service contact method for the user.

3. Technical indexes

- (1) Measuring range: PH: 0.01~14.00pH, ORP:-1999~+1999mV
Temp: 0~100°C (meter display temp, according to the sensor matched)
- (2) Resolution: PH: 0.01pH
ORP: 0.1mV
Temp: 0.1°C
- (3) Basic error of instrument: ORP: $\pm 1.0\%F \cdot S \pm 1$ unit,
Temp: $\pm 0.3^\circ C$
pH: $\pm 0.05pH$
- (4) Automatic or manual temperature compensation range for electronic units:
0~150°C (25°C as the basis)
- (5) Automatic temperature compensation error of electronic unit: $\pm 0.3\%F \cdot S$
- (6) Stability of electronic elements: $\pm 0.1\%F \cdot S \pm 1$ unit /24h
- (7) Repeatability error of electronic unit: $\leq 0.1\%F \cdot S \pm 1$ unit
- (8) Electronic unit alarm error: $\pm 1\%F \cdot S$
- (10) Output current error of electronic unit: $\pm 1\%F \cdot S$
- (11) Current output: 0~20mA(up load < 1.5K Ω)
4~20mA(up load < 750 Ω) 20~4mA(up load < 750 Ω)
- (12) Two Relay contacts: 4A 250VAC, 4A 30VDC
- (13) Power supply (Optional): 85~265VAC $\pm 10\%$, 50 ± 1 Hz, $\leq 3W$ 9~36VDC, $\leq 3W$
- (14) Dimension: 96 \times 96 \times 130mm
- (15) Installation mode: Panel type (Insertion type) Opening hole : 91 \times 91mm
- (16) Weight: 0.6kg
- (17) Working environment
 - 1) Ambient temp: -10~60°C
 - 2) Relative humidity: less than 90%
 - 3) There is no strong magnetic interference around the earth's magnetic field.

4. Application

Widely used in power plants, petrochemical, metallurgy, paper environmental protection, water treatment, electronics and other fields such as light industry. The power plant cooling water, supply water, saturated water, condensed water and boiler water, ion exchange, reverse osmosis EDL, seawater distillation water equipment, water and water quality monitoring and control.