



(Standard Package: *The meter is with four electrodes which are pH combination electrode, conductivity electrode, DO electrode and temperature sensor. Also we supply pH buffer power with pH4.00,6.86 and 9.18 for 5bags in each.*)

## 71X multi-parameter – portable water analyzer

### Description Instrument functions:

- \* Several parameters can be shown on the same screen. It can simultaneously measure pX/pH, mV, **conductivity**, TDS, salinity, resistivity, **dissolved oxygen**, saturation and **temperature**.
- \* It provides many common ion modes such as H<sup>+</sup>, Ag<sup>+</sup>, Na<sup>+</sup>, K<sup>+</sup>, NH<sub>4</sub><sup>+</sup>, Cl<sup>-</sup>, F<sup>-</sup>, NO<sub>3</sub><sup>-</sup>, BF<sub>4</sub><sup>-</sup>, CN<sup>-</sup>, Cu<sup>2+</sup>, Pb<sup>2+</sup>, Ca<sup>2+</sup> (this is optional)
- \* It follows GLP practice and can store 2200 sets of measuring data.
- \* It provides zero oxygen and full scale calibration.
- \* It provides three measuring modes: continuous measuring, timing measuring and balance measuring mode.
- \* It has USB ports. If matched with communication software, it can be connected with PC.
- \* It is small size and low-energy designed. The protection level is IP65 for portable work and field measurement.

**Specifications:**

## 1. Measuring range:

- \* pH/pX: (-2.000~19.999)pH/pX
- \* O R P: (-1999.99~1999.99)mV
- \* Conductivity: 0.000 S/cm~199.9mS/cm
- \* Dissolved oxygen: (0.00~19.99)mg/L
- \* Dissolved oxygen saturation: (0.0~199.9)%
- \* Temp:(-5.0~135.0) C
- \* Resistivity: 0.00Ω.cm~20.00MΩ.cm
- \* T D S: 0.000 mg/L~100g/L
- \* Salinity: (0.00~8.00)%
- \* Ion concentration:(0~19990), unit:ug/L, mg/L, g/L, mol/L, mmol/L

## 2. Resolution:

- \* pH/pX: 0.01, 0.001pH
- \* O R P: 0.1/0.01 mV
- \* Conductivity: 0.001 S/cm
- \* Resistivity: 0.01 Ω.cm
- \* T D S: 0.001 mg/L
- \* Salinity: 0.1 %
- \* Dissolved oxygen: 0.01mg/L
- \* Saturation: 0.10%
- \* Temperature:0.1 C

## 3. Accuracy:

- \* pH/pX:  $\pm 0.002$ pX $\pm 1$  bit
- \* ORP:  $\pm 0.03$  % FS
- \* Conductivity:  $\pm 0.5$  % FS
- \* Resistivity:  $\pm 0.5$  % FS
- \* T D S:  $\pm 0.5$  % FS
- \* Salinity:  $\pm 0.1$  %
- \* Ion concentration: $\pm 0.5$  % $\pm 1$  digit
- \* Dissolved oxygen:  $\pm 0.30$ mg/L
- \* Dissolved oxygen saturation:  $\pm 10.0$  %
- \* Temp: $\pm 0.3$  C $\pm 1$  digit

4. Input impedance $>3 \times 10^{12} \Omega$ 

## 5. Dissolved oxygen response time &lt; 45s (90% respond at 20C )

## 6. Automatic temperature compensation range:

- \* pH: ( 0.0~100.0) C
- \* Conductivity: (0.0~100.0) C
- \* Dissolved oxygen: (0.0~40.0) C|

## 7. Power: 4 AA batteries