

## YKT-730

### PH & Conductivity & Dissolved oxygen meter



#### Instrument features:

1. Multi-functional: Built-in pH, conductivity, and dissolved oxygen modules. Detects: pH value, mV value, conductivity, resistivity, TDS, salinity, dissolved oxygen concentration, dissolved oxygen saturation, and temperature.
2. 7-inch large color touchscreen with an easy-to-use graphical interface, automatic screen-off design, shockproof, scratch-resistant, and UV-resistant. Easy to clean and maintain when used with laboratory gloves. Provides rich test parameter information, simple operation, and clear, intuitive results.
3. Compact and elegant independent electrode holder for flexible experimental operation. Built-in Chinese/English operating system, time setting, adjustable brightness, and switchable temperature units.
4. pH supports 0.001pH, 0.01pH, and 0.1pH; mV supports three selectable precisions: 0.01mV, 0.1mV, and 1mV. Built-in 3 sets of 15 buffer solutions, automatic identification, user-defined 1-3 point calibration, and automatic display of electrode slope and status.
5. Automatic salinity and pressure compensation functions; the dissolved oxygen electrode can simultaneously measure temperature and dissolved oxygen, supporting timed and continuous measurements.
6. Built-in international and Chinese conductivity calibration solutions (8 types), supporting arbitrary point calibration methods; switchable between conductivity, TDS, salinity, and resistivity measurements; the 1.0 constant electrode covers the full measurement range; for samples below 20  $\mu\text{S}/\text{cm}$ , a 0.1 or 0.01 constant conductivity electrode is recommended.
7. Data statistics function; allows users to statistically analyze, view, delete, save, and print measurement results; GMP compliant; data traceability; supports self-diagnostic information, firmware upgrades, power-off protection, and factory reset; IP54 protection rating.
8. Fully automatic temperature compensation, supporting manual temperature compensation; intelligently judges electrode usage status.



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9. USB interface for data export; standard Bluetooth module supports wireless Bluetooth printing; data transfer via PC or mobile app for user convenience.

## Technical parameters:

Display: 7-inch color touchscreen  
pH Display Parameters: pH, mV, temperature, time  
pH Display Range: -2.00 to 20.00 pH  
pH Resolution: 0.1/0.01 pH  
pH Accuracy:  $\pm 0.01$  pH  
mV Measurement Range: -2000 ~ 2000 mV  
mV Resolution: 0.1mV  
Calibration: Automatic 3-point calibration  
Buffer Solutions: Built-in 3 groups of 15 buffer solutions, automatic identification, supports user-defined 1-3 point calibration  
Conductivity Display Parameters: Conductivity, resistivity, TDS, salinity, temperature  
Measurement Range: 0.000 $\mu$ S/cm ~ 2000mS/cm  
Resistivity: (0 ~ 100) M $\Omega$ ·cm  
TDS: (0 ~ 1000) g/L  
Salinity: (0.00 ~ 8.00)%  
Resolution: 0.001/0.01/0.1/ $1\mu$ S/cm  
Accuracy:  $\pm 0.5\%$   
Dissolved Oxygen Display Parameters: Concentration, Saturation, Temperature  
Dissolved Oxygen Range: (0 ~ 50.00) mg/L  
Dissolved Oxygen Resolution: 0.1/0.01 mg/L  
Dissolved Oxygen Accuracy:  $\pm 0.10$  mg/L  
Response Time: 25s  $\leq$  (25 $^{\circ}$ C, 90% response)  
Temperature Measurement Range: (0 ~ 100) $^{\circ}$ C  
Temperature Resolution: 0.1 $^{\circ}$ C  
Temperature Accuracy:  $\pm 0.1^{\circ}$ C  
Salinity Compensation: (0 ~ 45) ppt  
Pressure Compensation Range: (0 ~ 200) kPa  
Pressure Resolution: 0.1  
Pressure Accuracy:  $\pm 2\%$   
Stability: ( $\pm 0.07$ mg/L)/1h  
Temperature Compensation Range: (0 ~ 100) $^{\circ}$ C (Auto)  
Temperature Resolution: 0.1 $^{\circ}$ C  
Data Storage: 1800 sets  
Communication Interface: USB 2.0, Bluetooth, PC Connection, Mobile APP  
Power Supply: 12V 1A  
IP Rating: IP54