

10 IN 1 pH/mV Conductivity/TDS/DO Meter

MODEL : EC910

FEATURES

High accuracy multi parameter water quality meter includes 8 measurement modes, the meter is suitable for measuring the pH, ORP, Ion concentration, Conductivity, TDS, Salinity, Resistivity and Dissolved Oxygen of the liquids.

pH Mode

- High accuracy portable multi parameter water quality meter is equipped with a large backlit LCD display.
- 1 to 5 points push-button calibration with auto-buffer recognition.
- Selectable pH buffer standards (USA/NIST/DIN) or using the custom calibration solutions.
- Automatic electrode slope display helps user decide whether to replace sensor.

ORP Mode

- Single point offset calibration allows adjusting the displayed value to a known standard.
- Relative and absolute millivolt measurement modes provide accurate ORP readings.

Ion Mode

- 2 to 5 points calibration including the eight concentration calibration points can be selected.
- Automatically recognize ion selective electrodes, does not need to specify type of ion.
- Direct ion concentration readout simplifies the elaborate measurement process.
- Selectable multiple concentration units including the ppm, mg/L and mol/L.

Conductivity/TDS/Salinity/Resistivity Mode

- 1 to 5 points push-button calibration with automatic calibration solution recognition.
- Selectable cell constants (0.1/1/10), n
- ormalization temperatures (20/25°C), TDS conversion factors, seawater and practical salinity measurement modes.

Dissolved Oxygen Mode

- 1 or 2 points calibration using air-saturated water and zero oxygen solution.
- Manual salinity and barometric pressure compensation improve the measurement accuracy.

Other Features

- Automatic Temperature Compensation provides accurate reading over the entire range.
- Calibration Due Reminder prompts user to calibrate the meter regularly.
- Stability indicator automatically shows current measurement status.
- Auto-Hold function freezes stable measured value for easy viewing and recording.
- Manual temperature calibration corrects temperature deviation.
- Selectable temperature unit (°C or °F) meets different application requirements.
- Automatic electrode diagnosis shows zero point offset and slope of the electrode.
- Help message as a operational guide that helps you quickly begin using the meter.
- System menu allows setting the 15 parameters, including the calibration points, resolutions, stability conditions, measurement units, etc.
- Reset feature automatically resumes all parameters back to factory default options.
- Expanded memory stores and recalls up to 500 readings.
- Built-in real-time clock stamps stored data to meet GLP standard.
- Stored data can be transferred into computer by USB communication interface.
- Multi-mode power scheme (battery, power adapter, computer's USB port) ensures that use the meter smoothly.

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Solutions for Laboratory



PRODUCT DATA SHEET

Specifications:	
1. pH	<ul style="list-style-type: none"> Range: -2.000~20.000pH Accuracy: ± 0.002pH Resolution: 0.1, 0.01, 0.001pH Calibration Points: 1 to 5 points, USA, NIST, DIN Standards Temperature Compensation: 0~100°C, 32~212°F, Manual or Automatic
2. mV	<ul style="list-style-type: none"> Range: -1999.9~1999.9mV Accuracy: ± 0.2mV Resolution: 0.1, 1mV Calibration Points: 1 point (Only for Relative mV mode) Calibration Range: ± 200mV
3. Ion	<ul style="list-style-type: none"> Range: 0.001~19999ppm, mg/L, mol/L (Depending on range of ISE) Accuracy: $\pm 0.5\%$ F.S (Monovalent), $\pm 1\%$ F.S (Divalent) Resolution: 0.001, 0.01, 0.1, 1 Calibration Points: 2 to 5 points Calibration Solutions: 0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000ppm, mol/L, mg/L
4. Conductivity	<ul style="list-style-type: none"> Range: 0~20.00, 200.0, 2000μS/cm, 20.00, 200.0mS/cm Accuracy: $\pm 0.5\%$ F.S Calibration Points: 1 to 5 points Calibration Solutions: 10μS/cm, 84μS/cm, 1413μS/cm, 12.88mS/cm, 111.8mS/cm Temperature Compensation: 0~100°C, 32~212°F, Manual or Automatic Temperature Coefficient: 0.0~10.0%/°C Compensation Modes: Linear or Pure Water Cell Constant: K=0.1, 1, 10 Normalization Temperature: 20 or 25°C
5. TDS	<ul style="list-style-type: none"> Range: 0~10ppt (Max. 20ppt, depending on factor setting) Accuracy: $\pm 1\%$ F.S TDS Factor: 0.1~1.0 (Default 0.5)
6. Salinity	<ul style="list-style-type: none"> Range: 0~10ppt (Max. 80ppt) Accuracy: $\pm 1\%$ F.S Measurement Modes: Seawater or Practical Salinity
7. Resistivity	<ul style="list-style-type: none"> Range: 0~100MΩ Accuracy: $\pm 1\%$ F.S Resolution: 0.01, 0.1, 1
8. Dissolved Oxygen (DO)	<ul style="list-style-type: none"> Range: 0.00~20.00mg/L (or ppm) Accuracy: ± 0.2mg/L Resolution: 0.01mg/L Calibration Points: 1 or 2 points Temperature Compensation: 0~50°C, 32~122°F Pressure Correction: 60.0~112.5kPa, 450~850mmHg Salinity Correction: 0~50g/L
9. Saturation of Oxygen	<ul style="list-style-type: none"> Range: 0.0~200.0% Accuracy: $\pm 2.0\%$ Resolution: 0.1%
10. Temperature	<ul style="list-style-type: none"> Range: 0~105°C, 32~221°F Accuracy: ± 0.5°C, ± 0.9°F Resolution: 0.1°C Calibration Points: 1 point Calibration Range: Measured value ± 10°C
11. Others	<ul style="list-style-type: none"> Hold Function: Manual or Automatic Stability Conditions: Low or High Calibration Due: 0 to 31 days Power Off: Manual or Automatic (10, 20, 30 minutes) Reset Function: Yes Memory: Stores up to 500 data sets Output: USB Communication Interface Connector: BNC, 6-pin Mini Plug Power Requirements: 3 x 1.5V "AA" Batteries Battery Life: Approximately 150 hours (Turn off the backlit) Dimensions: 170(L)x 85(W) x 30(H)mm Weight: 300g