

Benchtop Precision Water Quality Multi Meter

The SciQuip high accuracy multi-parameter water quality meter includes 15 parameters including pH, ORP, Ion concentration, Conductivity, TDS, Salinity, Resistivity and Dissolved Oxygen of the liquids and is equipped with a large backlit LCD display.

pH Mode:

- 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), normalization 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 an 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.



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Technical Specification

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| ORDER NUMBER | SQ-7074 - SciQuip Precision Water Quality Multi Meter including: P11 pH Electrode, K10 Conductivity Cell, DO 100 Polarographic probe, Electrolyte solution & Membrane Cap Kit, Temperature Probe, pH Buffer Pouches (pH4.01/7.00/10.01) Calibration Solutions |
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|---------------------------|---|
| pH | |
| 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 |
| mV | |
| Range | -1999.9~1999.9mV |
| Accuracy | ±0.2mV |
| Resolution | 0.1, 1mV |
| Calibration Points | 1 point (Only for Relative mV mode) |
| Calibration Range | ±200mV |
| Ion | |
| Range | 0.001~19999ppm, mg/L, mol/L (Depending on range of ISE) |
| Accuracy | ±0.5% F.S (Monovalent), ±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 |
| Conductivity | |
| Range | 0~20.00, 200.0, 2000µS/cm, 20.00, 200.0mS/cm |
| Accuracy | ±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 |
| TDS | |
| Range | 0~10ppt (Max. 20ppt, depending on factor setting) |
| Accuracy | ±1% F.S |
| TDS Factor | 0.1~1.0 (Default 0.5) |
| Salinity | |
| Range | 0~10ppt (Max. 80ppt) |
| Accuracy | ±1% F.S |
| Measurement | Seawater or Practical Salinity |

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|-------------------------------|--|
| Resistivity | |
| Range | 0~100MΩ |
| Accuracy | ±1% F.S |
| Resolution | 0.01, 0.1, 1 |
| Dissolved Oxygen | |
| 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 |
| % Saturation of Oxygen | |
| Range | 0.0~200.0% |
| Accuracy | ±2.0% |
| Resolution | 0.1% |
| Temperature | |
| 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 |
| General Spec | |
| 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 |
| Display | LCD |
| Power Requirements | DC5V, using AC adapters, 220VAC/50Hz |
| Dimensions | 210(L)×188(W)×60(H)mm |
| Weight | 1.5kg |

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