

Portable Precision Multi-Parameter Meter

pH Mode:

- High accuracy portable multiparameter 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:

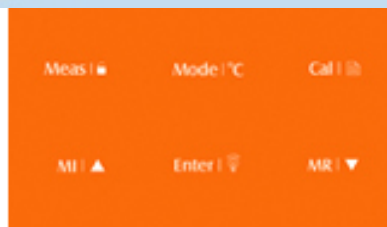
- 1 to 5 points push-button calibration with automatic calibration solution recognition.
- Selectable cell constants (0.1/1/10), normalization temperatures (20/25°C), TDS conversion factors, seawater and practical salinity measurement modes.

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.
- Multi-mode power scheme (battery, power adapter, computer's USB port) ensures that use the meter smoothly.
- Supplied with buffers, probes and a tough carry case.



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Technical Specification

ORDER NUMBER	SQ-7052 - SciQuip Portable Multi-Parameter Water Quality 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) ,
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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 Modes	Seawater or Practical Salinity

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
Power Requirements	3×1.5V "AA" Batteries
Battery Life	Approximately 150 hours (Turn off the backlit)
Dimensions	170(L)×85(W)×30(H)mm
Weight	300g



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