SciQuip Benchtop Water Quality Meters

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Economic Benchtop pH/mV/°C Meter

The SciQuip Economic Benchtop pH, mV and Temperature meter is a basic pH meter with 2 point calibration and automatic temperature compensation. The meter is ideal for routine laboratory work and education with an accuracy of 0.01pH.

- Basic pH meter is equipped with a blue backlit LCD display.
- 2 points push-button calibration with auto-buffer recognition.
- Electrode slope display helps user decide whether to replace pH electrode.
- Automatic Temperature Compensation provides an accurate reading over the entire pH range.

Technical Specification

ORDER NUMBER	**SQ-7059 - SciQuip Economic Benchtop pH/mV/°C/ Meter including P11 pH Electrode, Temperature Probe, pH Buffer Solutions (pH4.01/7.00/10.01) and power adapter**

pH	
Range	0.00~14.00pH
Accuracy	±0.01pH
Resolution	0.01pH
Calibration Points	2 points
Calibration Solutions	USA (pH4.01/7.00/10.01) or NIST (pH4.01/6.86/9.18)
Temperature Compensation	0~100°C
Compensation Mode	Manual or Automatic
mV	
Range	-1999~1999mV
Accuracy	±1mV
Resolution	1mV
Temperature	
Range	0~100°C, 32~212°F
Accuracy	±1°C
Resolution	1°C
General Spec	
Connector	BNC
Power Requirements	DC9V, using AC adapters, 220VAC/50Hz
Dimensions	210(L)×205(W)×65(H)mm
Weight	1.5kg

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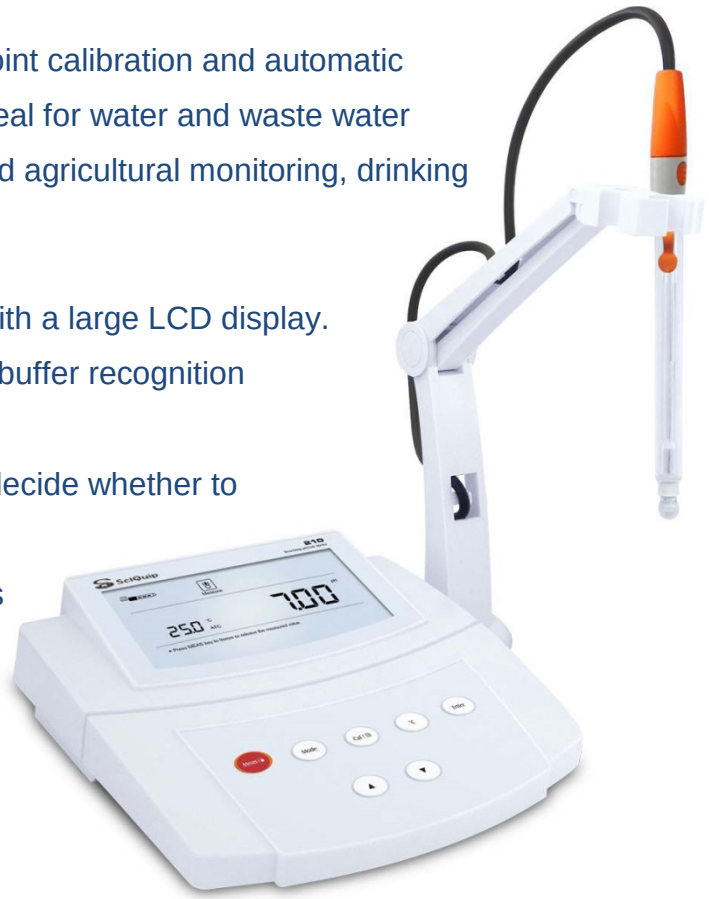
Benchtop pH/mV/°C/°F Meter

The SciQuip Standard Benchtop pH Meter has a 3 point calibration and automatic temperature compensation. This compact meter is ideal for water and waste water treatment, research and education, environmental and agricultural monitoring, drinking water and cosmetics analysis and much more.



- Easy-to-use benchtop pH meter is equipped with a large LCD display.
- 1 to 3 points push-button calibration with auto-buffer recognition (USA and NIST standards).
- Automatic electrode slope display helps user decide whether to replace sensor.
- Automatic temperature compensation provides accurate reading over the entire pH range.
- Auto-Hold function freezes stable measured value for easy viewing and recording.
- Manual temperature calibration improves the measurement accuracy of meter.
- Selectable temperature unit (°C or °F) meets different application requirements.
- Help message and an operational guide that helps you quickly begin using the meter.
- System menu allows setting the 5 parameters, including the pH buffer standards, calibration points, temperature units, hold function, etc.
- Reset feature automatically resumes all parameters back to factory default options.

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Benchtop pH/mV/°C/°F Meter

Technical Specification

ORDER NUMBER	**SQ-7060 - SciQuip Standard Benchtop pH/mV/°C/°F Meter including P11 Glass pH Electode, Temperature Probe, pH Buffer Pouches (pH4.01/7.00/10.01)**

pH	
Range	-1.00~15.00pH
Accuracy	±0.01pH
Resolution	0.01pH
Calibration Points	1 to 3 points
Calibration Solutions	USA (pH4.01/7.00/10.01) or NIST (pH4.01/6.86/9.18)
Temperature Compensation	0~100°C, 32~212°F
Compensation Mode	Manual or Automatic
mV	
Range	-1000~1000mV
Accuracy	±1mV
Resolution	1mV
Temperature	
Range	0~105°C, 32~221°F
Accuracy	±1°C
Resolution	0.1°C
Calibration Range	Measured value ±10°C
Temperature Units	°C or °F
General Spec	
Hold Function	Manual or Automatic
Power Off	Manual or Automatic (180 minutes after last key pressed)
Reset Function	Yes
Connector	BNC
Display	LCD (135×75mm)
Power Requirements	DC9V, using AC adapters, 220VAC/50Hz
Dimensions	210(L)×205(W)×75(H)mm
Weight	1.5kg

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Precision Benchtop pH/mV/ORP/°C/°F Meter

The SciQuip Precision benchtop pH meter features a 5 points calibration, automatic temperature compensation with an accuracy of 0.002pH. This compact and highly accurate meter is ideal for water and waste water treatment, research and education, environmental and agricultural monitoring, drinking water and cosmetics analysis etc.

pH Mode:

- High accuracy benchtop pH 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 you decide whether to replace sensor.
- Automatic temperature compensation provides accurate reading over the entire pH range.
- Calibration due reminder prompts user to calibrate the meter regularly.

ORP Mode:

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

Other Features:

- Stability indicator shows current measurement status automatically.
- Auto-Hold function freezes stable measured value for easy viewing and recording.
- Manual temperature calibration improves the measurement accuracy of meter.
- 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 9 parameters, including the pH buffer standards, calibration points, resolutions, stability conditions, temperature 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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Precision Benchtop pH/mV/ORP/°C/°F Meter

Technical Specification

ORDER NUMBER	**SQ-7061 - SciQuip Precision Benchtop pH/mV/ORP/°C/°F Meter including P11 Glass pH Electrode, Temperature Probe, pH Buffer Pouches (pH4.01/7.00/10.01)**

pH	
Range	-2.000~20.000pH
Accuracy	±0.002pH
Resolution	0.1, 0.01, 0.001pH
Calibration Points	1 to 5 points
Calibration Solutions	USA, NIST, DIN Standards
Temperature Compensation	0~100°C, 32~212°F
Compensation Mode	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
Temperature	
Range	0~105°C, 32~221°F
Accuracy	±0.5°C, ±0.9°F
Resolution	0.1°C
Calibration Range	Measured value ±10°C
Temperature Units	°C or °F
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
Display	LCD (130×110mm)
Power Requirements	DC5V, using AC adapters, 220VAC/50Hz
Dimensions	210(L)×188(W)×60(H)mm
Weight	1.5kg

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Benchtop Conductivity/TDS/°C/°F Meter

The SciQuip high performance benchtop conductivity meter features a 1 – 3 points calibration and automatic temperature compensation. This compact conductivity and TDS meter is ideal for water quality testing, environmental and aquaculture monitoring, printing and chemical industry along with general research and education.

- High performance benchtop conductivity meter is equipped with a clear backlit LCD display.
- 1 to 3 points push-button calibration with automatic calibration solution recognition.
- Selectable cell constants (0.1/1/10), temperature coefficient and TDS conversion factors.
- Automatic temperature compensation provides accurate reading over the entire range.
- Auto-Hold function freezes stable measured value for easy viewing and recording.
- Manual temperature calibration improves the measurement accuracy of meter.
- Selectable temperature unit (°C or °F) meets different application requirements.
- Help message as an operational guide that helps user quickly begin using the meter.
- System menu allows setting the 7 parameters, including the number of calibration points, temperature units, hold function, etc.
- Reset feature automatically resumes all parameters back to factory default options.

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Benchtop Conductivity/TDS/°C/°F Meter

Technical Specification

ORDER NUMBER	SQ-7070 - SciQuip Benchtop Conductivity/TDS/°C/°F Meter including K10 Conductivity Cell, Temperature Probe, Calibration Solutions (84uS/cm, 1413uS/cm, 12.88mS/cm)

Conductivity	
Range	0~20.00, 200.0, 2000µS/cm, 20.00, 200.0mS/cm
Accuracy	±1% F.S
Resolution	0.01, 0.1, 1
Calibration Points	1 to 3 points
Calibration Solutions	10µS/cm, 84µS/cm,1413µS/cm,12.88mS/cm,111.8mS/cm
TDS	
Range	0~10ppt (Max. 20ppt, depending on factor setting)
Accuracy	±1% F.S
TDS Factor	0.1~1.0 (Default 0.5)
Temperature	
Range	0~105°C, 32~221°F
Accuracy	±1°C
Resolution	0.1°C
Calibration Range	Measured value ±10°C
Temperature Units	°C or °F
General Spec	
Temperature Compensation	0~100°C, 32~212°F, Manual or Automatic
Temperature Coefficient	0.0~10.0%/°C
Cell Constant	K=0.1, 1, 10
Normalization Temperature	25°C
Hold Function	Manual or Automatic
Power Off	Manual or Automatic (180 minutes after last key pressed)
Reset Function	Yes
Connector	6-pin
Display	LCD (135×75mm)
Power Requirements	DC9V, using AC adapters, 220VAC/50Hz
Dimensions	210(L)×205(W)×75(H)mm
Weight	1.5kg

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Benchtop Precision Conductivity/TDS Salinity/Resistivity/°C/°F Meter

The SciQuip high performance precision conductivity meter features a 1 – 5 points calibration, automatic temperature compensation and system menu contains 11 optional parameters. This precision water quality tester is ideal for geological and ecological research, cooling towers, printing industry, pools and spas, aquaculture and agriculture along with general laboratory work.

- High performance benchtop conductivity meter is equipped with a large backlit LCD display.
- 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, linear and pure water compensation modes, seawater and practical salinity measurement modes.
- 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.
- Selectable temperature unit (°C or °F) meets different application requirements.
- Automatic electrode diagnosis shows cell constant of the sensor.
- Help message as an operational guide that helps you quickly begin using the meter.
- System menu allows setting the 10 parameters, including the number of calibration points, stability conditions, temperature units, hold function, 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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Benchtop Precision Conductivity/TDS Salinity/Resistivity/°C/°F Meter

Technical Specification

ORDER NUMBER	**SQ-7071 - SciQuip Precision Conductivity/TDS/Salinity/Resistivity/°C/°F Meter including K10 Conductivity Cell, Temperature Probe, Calibration Solutions (84uS/cm, 1413uS/cm, 12.88mS/cm)**

Conductivity	
Range	0~20.00, 200.0, 2000µS/cm, 20.00, 200.0mS/cm
Accuracy	±0.5% F.S
Resolution	0.01, 0.1, 1
Calibration Points	1 to 5 points
Calibration Solutions	10µS/cm, 84µS/cm,1413µS/cm,12.88mS/cm,111.8mS/cm
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
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	
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
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	6-pin
Power Requirements	DC5V, using AC adapters, 220VAC/50Hz
Dimensions	210(L)×188(W)×60(H)mm
Weight	1.5kg

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Benchtop pH/mV/ORP/Ion/°C/°F Meter

pH Mode:

- Multiparameter benchtop pH meter is equipped with a large backlit LCD display.
- 1 to 5 points calibration with auto-buffer recognition.
- Selectable pH buffer standards (USA/NIST/DIN) or using the custom calibration solutions.
- Automatically calculates and displays electrode slope that helps you decide whether to replace pH electrode.

ORP Mode:

- Single point offset calibration allows adjusting the displayed value to a known standard.
- Relative and absolute millivolt measurements 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 the type of ion.
- Direct ion concentration readout simplifies the elaborate measurement process.
- Selectable multiple concentration units for different measurement requirements.

Other Features:

- Automatic Temperature Compensation ensures 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 improves the measurement accuracy of meter.
- 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 the setting 10 parameters, including the pH buffer standards, number of calibration points, resolutions, stability conditions, hold function, 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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Benchtop pH/mV/ORP/Ion/°C/°F Meter

Technical Specification

ORDER NUMBER	SQ-7062 - Benchtop pH/mV/ORP/Ion/°C/°F Meter including: P11 pH Electrode, Temperature Probe, pH Buffer Pouches (pH4.01/7.00/10.01) and Power Adapter

pH	
Range	-2.000~20.000pH
Accuracy	±0.002pH
Resolution	0.1, 0.01, 0.001pH
Calibration Points	1 to 5 points
Calibration Solutions	USA, NIST, DIN Standards
Temperature Compensation	0~100°C, 32~212°F
Compensation Mode	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
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
Temperature	
Range	0~105°C, 32~221°F
Accuracy	±0.5°C, ±0.9°F
Resolution	0.1°C
Calibration Range	Measured value ±10°C
Temperature Units	°C or °F
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
Display	LCD (130×110mm)
Power Requirements	DC5V, using AC adapters, 220VAC/50Hz
Dimensions	210(L)×188(W)×60(H)mm
Weight	1.5kg

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Benchtop pH/ORP/Conductivity TDS/Salinity/°C/°F Meter

pH Mode:

- High accuracy benchtop 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.

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.
- Linear or pure water compensation improves measurement accuracy of meter.

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 12 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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Benchtop pH/ORP/Conductivity TDS/Salinity/°C/°F Meter

Technical Specification

ORDER NUMBER	**SQ-7076 - SciQuip Benchtop pH/ORP/Conductivity/TDS/Salinity/°C/°F Meter including: P11 pH Electrode, K10 Conductivity Cell, Temperature Probe, pH Buffer Pouches (pH4.01/7.00/10.01), calibration solutions (146uS/cm, 1413uS/cm, 12.88mS/cm) and Power Adapter**
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
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
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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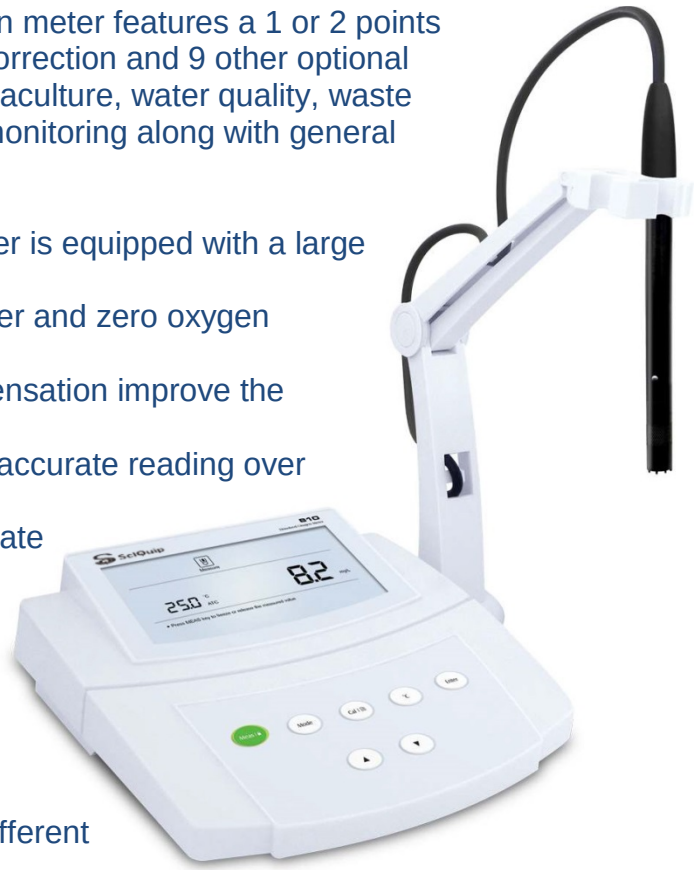
Benchtop
Precision Dissolved Oxygen Meter

The SciQuip high accuracy benchtop dissolved oxygen meter features a 1 or 2 points calibration, manual salinity and barometric pressure correction and 9 other optional parameters. This Precision DO2 meter is ideal for aquaculture, water quality, waste water and ground water testing, pond and aquarium monitoring along with general lab research and education.



- High accuracy benchtop dissolved oxygen meter is equipped with a large backlit LCD display.
- 1 or 2 points calibration using air-saturated water and zero oxygen solution.
- Manual salinity and barometric pressure compensation improve the measurement accuracy.
- Automatic temperature compensation ensures 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 improves the measurement accuracy of meter.
- Selectable temperature unit (°C or °F) meets different application requirements.
- Help message as an operational guide that helps you quickly begin using the meter.
- System menu allows setting the 9 parameters, including the calibration points, resolutions, stability conditions, temperature units, concentration 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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Benchtop
Precision Dissolved Oxygen Meter

Technical Specification

ORDER NUMBER	**SQ-7073 - SciQuip Precision Dissolved Oxygen Meter including DO 100 Polarographic probe, Electrolyte solution & Membrane Cap Kit**

Dissolved Oxygen	
Range	0.00~20.00mg/L (or ppm)
Accuracy	±0.2mg/L
Resolution	0.01mg/L
% Saturation of Oxygen	
Range	0.0~200.0%
Accuracy	±2.0%
Resolution	0.1%
General Spec	
Calibration Points	1 or 2 points
Temperature Compensation	0~50°C, 32~122°F
Barometric Pressure Correction	60.0~112.5kPa, 450~850mmHg
Salinity Correction	0~50g/L
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
Sensor Type	Order Code: DO100 Polarographic DO Probe
Power Requirements	DC9V, using AC adapters, 220VAC/50Hz
Dimensions	210(L)×188(W)×60(H)mm
Weight	1.5kg

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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.

ORPMode:

- 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

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

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

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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P series Laboratory pH Electrode

P11

General purpose pH electrode, round glass bulb, used for measuring the non-high temperature liquids.

Range	0～14pH
Temperature Range	0～80℃, 32～176℉
Ref. Type	AgCl
Liquid Junction Type	Annular Ceramic
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P11-ROD

General purpose pH electrode, rod-type glass bulb, used for measuring the non-high temperature liquids.

Range	0～14pH
Temperature Range	0～80℃, 32～176℉
Ref. Type	AgCl
Liquid Junction Type	Annular Ceramic
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P11-LiCl

Professional pH electrode, used for measuring the liquors, oils and non-aqueous samples.

Range	0～14pH
Temperature Range	0～80℃, 32～176℉
Ref. Type	AgCl
Liquid Junction Type	Annular Ceramic
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P11-HA

Professional pH electrode, used for measuring the photographic processing solutions.

Range	0～14pH
Temperature Range	0～80℃, 32～176℉
Ref. Type	Ag/AgCl
Liquid Junction Type	Annular Ceramic
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P11-NA

Professional pH electrode, used for measuring the biofuel.

Range	0～14pH
Temperature Range	0～80℃, 32～176℉
Ref. Type	AgCl
Liquid Junction Type	Ceramic
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P11-PB

General purpose pH electrode with a glass protective guard.

Range	0～14pH
Temperature Range	0～80℃, 32～176℉
Ref. Type	Ag/AgCl
Liquid Junction Type	Glass, Teflon
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P11-DW

Professional pH electrode, used for measuring the low conductivity liquids or low ionic strength samples.

Range	0～14pH
Temperature Range	0～50℃, 32～122℉
Ref. Type	Double Junction Ag/AgCl
Liquid Junction Type	Glass, Polymer
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P12

Professional pH electrode, used for measuring the sample in the test tube.

Range	0～14pH
Temperature Range	0～80℃, 32～176℉
Ref. Type	AgCl
Liquid Junction Type	Frit Ceramic
Body Type	Glass
Connector	BNC
Dimensions	150(L)×6(Dia.)mm

P13

Professional pH electrode, used for measuring the micro-volume samples.

Range	0～14pH
Temperature Range	0～80℃, 32～176℉
Ref. Type	AgCl
Liquid Junction Type	Frit Ceramic
Body Type	Glass
Connector	BNC
Dimensions	90(L)×4.5(Dia.)mm

P14

General purpose pH electrode, plastic shell, used for outdoor applications.

Range	0～14pH
Temperature Range	0～80℃, 32～176℉
Ref. Type	AgCl
Liquid Junction Type	Porous Teflon
Body Type	Epoxy
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P15

Professional pH electrode, used for measuring the low conductivity liquids.

Range	0～14pH
Temperature Range	0～50°C, 32～122°F
Ref. Type	HgCl
Liquid Junction Type	Annular Ceramic
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P16

Professional pH electrode, used for measuring the liquids with the Tris buffers.

Range	0～14pH
Temperature Range	0～50°C, 32～122°F
Ref. Type	HgCl
Liquid Junction Type	Frit Ceramic
Body Type	Glass
Connector	BNC
Dimensions	90(L)×6(Dia.)mm

P17
Flat surface pH electrode, used for measuring the semisolid samples.

Range	0～14pH
Temperature Range	0～60°C, 32～140°F
Ref. Type	AgCl
Liquid Junction Type	Porous Teflon
Body Type	Epoxy
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P18
Professional pH electrode, used for measuring the slurries.

Range	0～14pH
Temperature Range	0～80°C, 32～176°F
Ref. Type	AgCl
Liquid Junction Type	Annular Ceramic
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P19
Professional pH electrode, used for measuring the semisolid samples.

Range	0～14pH
Temperature Range	0～80°C, 32～176°F
Ref. Type	AgCl
Liquid Junction Type	Frit Ceramic
Body Type	Glass
Connector	BNC
Dimensions	40(L)×6(Dia.)mm

P20
General purpose pH electrode, round glass bulb, used for measuring the non-high temperature liquids. The electrode has temperature sensor.

Range	0～14pH
Temperature Range	0～80°C, 32～176°F
Ref. Type	AgCl
Liquid Junction Type	Annular Ceramic
Temperature Sensor	10KΩ
Connector	BNC, Phone plug
Dimensions	120(L)×12(Dia.)mm

P21
Professional pH electrode, used for measuring the colloids.

Range	0～14pH
Temperature Range	0～80°C, 32～176°F
Ref. Type	AgCl
Liquid Junction Type	Sleeve
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

P22
Professional pH electrode, used for measuring the high temperature samples.

Range	0～14pH
Temperature Range	0～130°C, 32～266°F
Ref. Type	AgCl
Liquid Junction Type	Glass, Teflon
Body Type	Glass
Connector	BNC
Dimensions	120(L)×12(Dia.)mm

K series Conductivity Electrode

K10
Platinum conductivity electrode, used for measuring the general liquids.

Range	0～150mS/cm
Temperature Range	0～50°C, 32～122°F
Material	Platinum
Cell Constant	K=1
Body Type	Glass
Connector	6-pin
Dimensions	120(L)×12(Dia.)mm

K20
Graphite conductivity electrode, used for measuring the paint, dyes, etc.

Range	0～10mS/cm
Temperature Range	0～50°C, 32～122°F
Material	Graphite
Cell Constant	K=1
Body Type	Epoxy
Connector	6-pin
Dimensions	120(L)×12(Dia.)mm

K30
Platinum conductivity electrode with the flow cell design.

Range	0～150mS/cm
Temperature Range	0～50°C, 32～122°F
Material	Platinum
Cell Constant	K=1
Body Type	Glass
Connector	6-pin
Dimensions	120(L)×12(Dia.)mm

K21
Graphite conductivity electrode, used for measuring the pure water or low ionic samples.

Range	0～500μS/cm
Temperature Range	0～50°C, 32～122°F
Material	Graphite
Cell Constant	K=0.1
Body Type	Epoxy
Connector	6-pin
Dimensions	120(L)×12(Dia.)mm

K40
Platinum conductivity electrode, used for measuring the pure water or low ionic samples.

Range	0～500μS/cm
Temperature Range	0～50°C, 32～122°F
Material	Platinum
Cell Constant	K=0.1
Body Type	Glass
Connector	6-pin
Dimensions	120(L)×12(Dia.)mm

K22
Graphite conductivity electrode, used for measuring the high conductivity liquids.

Range	0～500mS/cm
Temperature Range	0～50°C, 32～122°F
Material	Graphite
Cell Constant	K=10
Body Type	Epoxy
Connector	6-pin
Dimensions	120(L)×12(Dia.)mm

CON series Conductivity Electrode

CON-1
General purpose conductivity electrode, platinum sensor.

Range	0.01～10mS/cm
Temperature Range	0～80°C, 32～176°F
Material	Platinum
Cell Constant	K=1
Body Type	Glass
Connector	6-pin
Dimensions	120(L)×12(Dia.)mm

CON-0.1
General purpose conductivity electrode, used for measuring the pure water.

Range	0.1～100μS/cm
Temperature Range	0～80°C, 32～176°F
Material	Platinum
Cell Constant	K=0.1
Body Type	Glass
Connector	6-pin
Dimensions	120(L)×12(Dia.)mm

CON-10
General purpose conductivity electrode, used for measuring the high conductivity liquids.

Range	0.1～200mS/cm
Temperature Range	0～80°C, 32～176°F
Material	Platinum
Cell Constant	K=10
Body Type	Glass
Connector	6-pin
Dimensions	120(L)×12(Dia.)mm

DO100 Dissolved Oxygen Probe

Polarographic dissolved oxygen probe, including the temperature sensor, used for measuring the dissolved oxygen and percentage saturation of water

Sensor Type	Polarographic
Output at Saturation	400nA (±25%)
Output at Zero Oxygen	<1%
Temperature Range	0～80°C, 32～176°F
Body Type	Epoxy
Connector	6-pin
Dimensions	120(L)×12(Dia.)mm

501/502 ORP Electrode

Plastic ORP electrode, operating temperature: 0 to 80°C.

Model	501	502
Sensor Type	Platinum pin	Platinum band
Temperature Range	0～80°C, 32～176°F	0～80°C, 32～176°F
Ref. Type	Ag/AgCl	Ag/AgCl
Junction Type	Teflon	Teflon
Connector	6-pin	6-pin
Dimensions	120(L)×12(Dia.)mm	120(L)×12(Dia.)mm

503/504 ORP Electrode

Glass ORP electrode, operating temperature: 0 to 100°C.

Model	503	504
Sensor Type	Platinum pin	Platinum band
Temperature Range	0～100°C, 32～212°F	0～100°C, 32～212°F
Ref. Type	Ag/AgCl	Ag/AgCl
Junction Type	Annular Ceramic	Annular Ceramic
Connector	6-pin	6-pin
Dimensions	120(L)×12(Dia.)mm	120(L)×12(Dia.)mm

UK series Ion Selective Electrodes

Specifications:

Model	Ion Type	Concentration	Limits (ppm)	pH Range	Temperature Range
NH4-UK	Ammonium (NH_4^+)	0.5~5×10^{-5}M	9000~0.9ppm	0~8.5pH	0~50℃
Ba-UK	Barium (Ba^{2+})	0.1~10^{-5}M	13000~1.4ppm	3~10pH	0~50℃
Br-UK	Bromide (Br^-)	1~5×10^{-6}M	81000~0.4ppm	1~12pH	5~50℃
Cn-UK	Cyanide (CN^-)	0.01~1×10^{-6}M	260~0.03ppm	11~13pH	5~50℃
Na-UK	Sodium (Na^+)	3~10^{-7}M	69000~0.002ppm	1~9pH	0~50℃
NO3-UK	Nitrate (NO_3^-)	1~7×10^{-6}M	62000~0.4ppm	2~11pH	0~50℃
Ca-UK	Calcium (Ca^{2+})	0.1~5×10^{-7}M	4012~0.02ppm	3.5~11pH	0~50℃
F-UK	Fluoride (F)	0.1~1×10^{-6}M	0.02~1900ppm	4~8pH	5~50℃
Cd-UK	Cadmium (Cd^{2+})	0.1~1×10^{-6}M	11200~0.1ppm	3~7pH	5~50℃
Cu-UK	Cupric (Cu^{2+})	0.1~1×10^{-7}M	64000~0.006ppm	2~7pH	5~50℃
I-UK	Iodide (I)	1~5×10^{-7}M	127000~0.06ppm	2~12pH	5~50℃
Pb-UK	Lead (Pb^{2+})	0.1~1×10^{-6}M	20800~0.02ppm	3~7pH	5~50℃
Ag-UK	Silver (Ag^+)	0.1~1×10^{-7}M	107900~0.01ppm	1~9pH	5~50℃
S-UK	Sulphide (S^{2-})	1×10^{-7}~1M	3200~0.03ppm	13~14pH	5~50℃
Cl-UK	Chloride (Cl^-)	1~3×10^{-6}M	35000~1ppm	0~14pH	5~50℃
K-UK	Potassium (K^+)	1~10^{-6}M	39000~0.04ppm	1~9pH	0~50℃