



MESLO ELECTROCHEMISTRY RANGE Quality Portable Meters

pH, Conductivity, Ion Analysis & Combined
pH / Conductivity Models

www.meslo.com

MESLO Portable Meters

A series of robust and reliable quality electrochemistry portable meters available from MESLO. All are state-of-the-art instruments made in the UK. All Instruments are CE and UKCA marked. The clear backlit graphic display guides the user through every operation ensuring that even the most unskilled operation can perform accurate analysis without an instruction manual.

Every instrument in the range has a mini USB output for printing or exporting sample and calibration data. If printing is not possible there is a 10,000 data point, 64 file internal memory to enable field data to be recorded. Power is via 4 x AA batteries. Lifetime is impressive due to a highly efficient display with brightness and contrast options along with many other power saving features.

The MESLO range of products is extremely tough, splash-proof, practical and have a two-year warranty.

- ✔ MESLO Portable pH Meter Model MP1
- ✔ MESLO Portable ION Meter Model MI1
- ✔ MESLO Portable Combined pH/Conductivity Meter Model MPC1
- ✔ MESLO Portable Conductivity / TDS Meter MC1



SPECIFICATIONS

	MP1	MI1	MPC1	MC1
Made in the U.K	✔	✔	✔	✔
CE and UKCA Marked	✔	✔	✔	✔
ATC	✔	✔	✔	✔
Auto End Point	✔	✔	✔	✔
Auto Buffer Recognition	✔	✔	✔	✔
Automatic Calibration	✔	✔	✔	✔
Available as Field Kit	✔	✔	✔	✔
Backlit Display	✔	✔	✔	✔
BNC Socket	✔	✔	✔	
Chloride Mode		✔		
Conductivity Mode			✔	✔
Data Logging	✔	✔	✔	✔
Data output to Excel	✔	✔	✔	✔
Date and Time setting	✔	✔	✔	✔
DIN Socket			✔	✔
Dissolved Oxygen		✔		
Energy Saving Features	✔	✔	✔	✔
Internal Memory	✔	✔	✔	✔
ION Concentration Mode		✔		
Known Addition Mode		✔		
mV Mode	✔	✔	✔	
pH Mode	✔	✔	✔	
Positive Feedback Keys	✔	✔	✔	✔
Relative mV Mode	✔	✔	✔	
Splashproof Case	✔	✔	✔	✔
TDS Mode			✔	✔
Temperature Display	✔	✔	✔	✔
User ID input	✔	✔	✔	✔
REDOX mode	✔	✔	✔	
200 hour Battery Life	✔	✔	✔	✔





Portable pH Meter Kit Model MP1

MESLO MP1

MESLO MP1 Portable pH Meter is dedicated for the measurement of pH in water. It has a clear graphic display which guides the user through every operation ensuring that even the most unskilled operation can perform accurate analysis without an instruction manual.

The MP1 meter has a mini-USB output for printing or exporting sample and calibration data. If printing is not possible there is a 10,000 data point, 64 file internal memory to enable field data to be recorded.

Power is via 4 x AA batteries. Lifetime is impressive due to a highly efficient display with brightness and contrast options along with many other power saving features.

Meslo portable pH meter is extremely Tough, Splash-proof and practical, and carry a two year warranty.



- ✔ 1, 2 or 3 Point Calibration
- ✔ Auto Endpoint
- ✔ Automatic Temperature Compensation (ATC)
- ✔ Automatic Buffer Recognition
- ✔ Buffer Correction
- ✔ Calibration Alarms
- ✔ Millivolt and Relative Millivolt Modes
- ✔ Data Logging and Internal Data Storage
- ✔ Micro USB Data Output
- ✔ Real Time Clock
- ✔ BNC Connector for pH Electrodes
- ✔ Tough Waterproof Carry Case
- ✔ Impressive Array of Accessories and Consumables

SPECIFICATIONS

PARAMETERS	TECHNICAL SPECIFICATIONS
pH Range	-2 to 16.00 pH Units
pH Accuracy	Resolves to +/- 0.01 pH Units
pH Calibration	1, 2 or 3 point Automatic Calibration with Auto Endpoint
mV Range	+/- 1999.9 mV
mV Accuracy	+/- 0.1 mV over the entire range
Temp Range	0 to + 105 degrees C
Temp Accuracy	+/- 0.1 degree C over the -5 to +105 degree C range
Temp Resolution	0.1 degrees C
Temp Compensation	Fully Automatic (ATC)
Connection	BNC (pH) 3.5mm Jack (ATC)
Data Output	Mini USB. Outputs csv. 38400 Baud
Data Storage	Dynamic storage of up to 64 Data files Logging maximum 10,000 data points
Power Requirement	4 x AA Battery
Battery Life	250 hours continuous use. Auto switch off and Power saving options
Dimensions (Meter Only)	175 x 88 x 48 mm (L x W x H)
Weight (Meter Only)	350 g
Warranty	2-Year warranty on main instrument
Origin	UK
Commodity Code	90278011



Portable Ion Meter Kit Model MI1

MESLO MI1

MESLO MI1 Portable Ion Meter is dedicated to the measurement of ions in water. It's Dual ION mode allows for the measurement of two separate species without the need for recalibration. The ION species is displayed along with concentration in units of your choice.

Continuous monitoring is possible using the ION logging function and has a clear graphic display which guides the user through every operation ensuring that even the most unskilled operation can perform accurate analysis without an instruction manual.

The MI1 meter has a mini-USB output for printing or exporting sample and calibration data. If printing is not possible there is a 10,000 data point, 64 file internal memory to enable field data to be recorded.

Power is via 4 x AA batteries. Lifetime is impressive due to a highly efficient display with brightness and contrast options along with many other power saving features.

Meslo portable Ion meter is extremely Tough, Splash-proof and practical, and carry a two-year warranty.



- ✓ Ion Mode
- ✓ Chloride Mode
- ✓ Dissolved Oxygen Mode
- ✓ Known Addition Mode
- ✓ Millivolt and Relative Millivolt Modes
- ✓ pH Mode
- ✓ REDOX Mode
- ✓ 1, 2 or 3 Point Calibration
- ✓ Auto Endpoint
- ✓ Automatic Temperature Compensation (ATC)
- ✓ Automatic Buffer Recognition
- ✓ Buffer Correction
- ✓ Calibration Alarms
- ✓ Data Logging and Internal Data Storage
- ✓ Micro USB Data Output
- ✓ Real Time Clock
- ✓ BNC Connector for pH Electrodes & ISEs
- ✓ Impressive Array of Accessories and Consumables

SPECIFICATIONS

PARAMETERS	TECHNICAL SPECIFICATIONS
pH & Ion Range	-2 to 16.00 pH Units, ppm, mol/l - refer to ISE spec for range
pH Accuracy	Resolves to +/- 0.01 pH Units
pH & Ion Calibration	1, 2 or 3 point Automatic Calibration with Auto Endpoint
mV Range	+/- 1999.9 mV
mV Accuracy	+/- 0.1 mV over the entire range
Temp Range	0 to + 105 degrees C
Temp Accuracy	+/- 0.1 degree C over the -5 to 105 degree C range
Temp Compensation	Fully Automatic (ATC)
Connection	BNC (pH) 3.5mm Jack (ATC)
Data Output	Mini USB. Outputs csv. 38400 Baud
Data Storage	Dynamic storage of up to 64 Data files Logging maximum 10,000 data points
Power requirement	4 x AA Battery
Battery Life	250 hours continuous use Auto switch off and Power saving options
Dimensions (Meter Only)	175 x 88 x 48 mm (L x W x H)
Weight (Meter only)	350 g
Warranty	2-Year warranty on main instrument
Origin	UK
Commodity Code	90278011



Portable pH/mV/Conductivity/TDS Meter Kit Model MPC1

MESLO MPC1

MESLO MPC1 Portable Combined Meter is dedicated for pH and Conductivity/TDS measurements in water. It has a clear backlit graphic display which guides the user through every operation, ensuring that even the most unskilled operation can perform accurate analysis without an instruction manual.

The MESLO MPC1 Meter has a mini-USB output for printing or exporting sample and calibration data. If printing is not possible there is a 10,000 data point, 64 file internal memory to enable field data to be recorded. Power is via 4 x AA batteries. Lifetime is impressive due to a highly efficient display with brightness and contrast options along with many other power saving features.

Meslo portable pH & Conductivity meter is extremely tough, splash-proof, practical, and carry a two year warranty.



- ✔ Dual pH and Conductivity Display
- ✔ 1, 2 or 3 Point pH Calibration
- ✔ Auto Conductivity Calibration
- ✔ Auto Endpoint
- ✔ Automatic Temperature Compensation (ATC)
- ✔ Automatic Standard Recognition
- ✔ pH Buffer Correction
- ✔ Millivolt and Relative Millivolt Modes
- ✔ Total Dissolved Solids (TDS) Mode
- ✔ Data Logging and Internal Data Storage
- ✔ Micro USB Data Output
- ✔ Real Time Clock
- ✔ BNC /DIN and 3.5mm Jack Connectors
- ✔ Impressive Array of Accessories and Consumables

SPECIFICATIONS

PARAMETERS	TECHNICAL SPECIFICATIONS
pH Range	-2 to 16 pH Units
pH Accuracy	+/- 0.01 pH Units
Automatic pH Calibration	Automatic calibration in all modes
Relative mV Mode	Sets any solution to 0 mV
mV Range	+/- 1999.9 mv to +/- 0.1 mV
mV Accuracy	+/- 1999.9 mv to +/- 0.1 mV
Conductivity Range	Auto-ranging from 0- 999mS/cm in appropriate units
Conductivity Resolution	(Range dependent) down to 0.01 uS/cm
Conductivity Accuracy	+/- 0.2% of Reading
TDS Ranges	0-999 g/L. Resolution: +/- 0.01 g/L
Temperature Range	0 to + 105 degrees C
Reference Temperature	Set at 25 degrees C
Temperature Coefficient	Set at 2% Per degree
Environment	Operates between 0-50 degrees C and 0-100% RH
Automatic Temperature Compensation (ATC)	ATC across the entire range for pH and Conductivity
Connection	Multi pin DIN for Conductivity/Temperature combined probe. BNC for pH with 3.5mm Jack for ATC
Data Output	Mini USB. Outputs csv at 38400 Baud
Data Storage	Dynamic Internal storage of up to 64 files. Logging maximum 10,000 data points
Display	Backlit LCD Graphic Display
Power requirement	4 X AA Batteries with over 200 Hours continuous use
Battery Life	Power saving features include: Auto off, Backlight control, logging sleep mode
Dimensions (Meter Only)	175 x 88 x 48 mm (L x W x H)
Weight (Meter Only)	350 g
Warranty	2-Year warranty on main instrument
Origin	UK
Commodity Code	90278011



Portable Conductivity/TDS Meter Kit Model MC1

MESLO MC1

The MESLO MC1 Portable Conductivity/TDS meter is part of the range of high quality portable meters from MESLO designed to make accurate measurements quick and simple. All are state of the art instruments which are designed and manufactured in the U.K.

The clear graphic display guides the user through every operation ensuring that even the most unskilled operation can perform accurate analysis without an instruction manual. Every instrument in the MESLO range has a mini USB output for printing or exporting sample and calibration data. If printing is not possible there is a 10,000 data point, 64 file internal memory to enable field data to be recorded.

Power is via 4 x AA batteries. Lifetime is impressive due to a highly efficient display with brightness and contrast options along with many other power saving features. MESLO Portable Conductivity Meter is extremely tough, splash-proof, practical, and carry a two-year warranty.

The MESLO MC1 is also available as a Field Kit to allow for immediate operation in the field. The MC1 Kit comprises: MC1 Conductivity/TDS Meter, MEC001 Conductivity/ATC Cell, MSA052 1413 $\mu\text{S}/\text{cm}$ Standard, 4 x AA Batteries, 100ml Sample Bottle, MAC801 Small Carry Case.



- ✓ Automatic Calibration
- ✓ Auto Endpoint
- ✓ Automatic Temperature Compensation (ATC)
- ✓ Simple Set Up Menu
- ✓ Auto Ranging
- ✓ Impressive Array of Accessories and Consumables
- ✓ TDS Mode with Adjustable TDS Factor
- ✓ Data Logging and Internal Data Storage
- ✓ Micro USB Data Output
- ✓ Real Time Clock
- ✓ Din Connector for Conductivity/Temp Probe

SPECIFICATIONS

PARAMETERS	MESLO MC1 PORTABLE METER
Conductivity Range	Auto-ranging from 0- 999mS/cm in appropriate units
Conductivity Accuracy	+/- 0.2% of Reading
Conductivity Resolution	Resolves to 0.01uS/cm in the low range. Otherwise 4 Significant figures
TDS Range	0-999 g/L
TDS Resolution	+/- 0.01g/L
Automatic Temperature Compensation (ATC)	ATC across the entire range. Default set at 2% per degree C (adjustable)
Autoranging (Conductivity)	Select the correct unit range Automatically
Temperature Range	0 to 105° C
Reference Temperature	Set at 25° C
Connection	Multi pin DIN for Conductivity/Temperature combined probe
Data Logging	Max data points 64,000. Log period 10 seconds to 99 hrs 59mins 59 secs Log Interval min 1 second
Data Output	Mini USB. Outputs csv at 38400 Baud. Data dumped into Excel using the DK400 Data Kit
Data Storage	Dynamic Internal storage of up to 64 files. Logging maximum 10,000 data points
Display	Backlit LCD Graphic Display
Power requirement	4 x AA Battery
Battery Life	250 hours continuous use. Power saving features: Auto off, Backlight control, logging sleep mode
Dimensions (Meter Only)	175 x 88 x 48 mm (L x W x H)
Weight (Meter only)	350 g
Warranty	2-Year warranty on main instrument
Origin	UK
Commodity Code	90278011

MESLO Range of pH Electrodes

Code	MPE001	MPE003	MPE004	MPE005
Body Type	Epoxy	Glass	Glass	Glass
Range	pH 0 - 14	± 2000mV	pH 0 - 14	pH 0 - 14
Cable Length	1 metre	1 metre	1 metre	1 metre
Combination	Yes	Yes	Yes	Yes
Refillable	No	Yes	Yes	Yes
Connector	BNC	BNC	BNC	BNC
Temperature Range	0 - 80°C	0 - 100°C	0 - 100°C	0 - 80°C
Shaft Length	120mm ± 2mm	120mm ± 2mm	Upper: 75mm, Lower: 90mm	120mm ± 2mm
Shaft Diameter	12mm ± 0.2mm	12mm ± 0.2mm	Upper: 12mm, Lower: 4mm	12mm ± 0.2mm
E O Point	0 ± 25mV	-	0 ± 25mV	0 ± 25mV
Junction Type	Porous Teflon	Annular Ceramic	Frit Ceramic	Annular Ceramic
Reference Type	Ag/AgCl, Gel filled, Single Junction	Ag/AgCl, Liquid filled, Single Junction	Ag/AgCl, Liquid filled, Single Junction	Ag/AgCl, Liquid filled, Single Junction
Response Time	<30 secs 95% FSD	Typically, less than 60 seconds	<30 secs 95% FSD	<30 secs 95% FSD
Sensing Element	-	1mm x 8mm Platinum Rod	-	-
Wet Materials	-	Glass, Platinum, Ceramic	-	-
Cleaning Solution	Order No. MCS115	-	Order No. MCS115	Order No. MCS115
Storage Solution	KCl Storage Solution - Order No. MST165	KCl Storage Solution - Order No. MST165	KCl Storage Solution - Order No. MST165	KCl Storage Solution - Order No. MST165
Refill Solution	-	3M KCl/AgCl Solution - Order No. MRS168	3.5M KCl/AgCl Solution Order No. MRS168	3M KCl/AgCl Solution Order No. MRS168

Code	MPE030	MPE050	MPE051	MPE076
Body Type	Glass	Glass	Epoxy	Glass
Range	pH 0 - 14	pH 0 - 11	pH 0 - 14	pH 0 - 14
Cable Length	1 metre	1 metre	1 metre	1 metre
Combination	Yes	Yes	Yes	Yes
Refillable	Yes	Yes	Yes	Yes
Connector	BNC	BNC	BNC	BNC
Temperature Range	0 - 80°C	0 - 50°C	0 - 80°C	0 - 50°C
Shaft Length	Upper: 75mm, Lower: 90mm	120mm ± 2mm	120mm ± 2mm	120mm ± 2mm
Shaft Diameter	Upper: 12mm, Lower: 6mm	12mm ± 0.2mm	12mm ± 0.2mm	12mm ± 0.2mm
E O Point	0 ± 25mV	0 ± 25mV	0 ± 25mV	0 ± 25mV
Junction Type	Frit Ceramic	Annular Ceramic	Porous Teflon	Frit Ceramic
Reference Type	Ag/AgCl, Liquid filled, Pseudo Double Junction	Ag/AgCl, Liquid filled, Pseudo Double Junction	Ag/AgCl, Partial Gel filled, Single Junction	Non-aqueous Liquid Filled, Pseudo Double Junction
Response Time	<30 secs 95% FSD	<30 secs 95% FSD	<30 secs 95% FSD	<30 secs 95% FSD
Sensing Element	-	-	-	-
Wet Materials	-	-	-	-
Cleaning Solution	-	Order No. MCS115	Order No. MCS115	-
Storage Solution	KCl Storage Solution - Order No. MST165	KCl Storage Solution - Order No. MST165	KCl Storage Solution - Order No. MST165	KCl Storage Solution - Order No. MST165
Refill Solution	3.5M KCl/NO/AgCl Solution Order No. MRS164	3.5M KCl/NO/AgCl Solution Order No. MRS164	3.5M KCl/AgCl Partial Gel Order No. MRS163	Lithium Chloride Non-Aqueous Solution, NaF Non-Aqueous Fill Solution

	MPE001	MPE003	MPE004	MPE005	MPE030	MPE050	MPE051	MPE076
Agar	X	X	X	X	X	X	X	X
Alkalines (High)	X	X	X	X	X	X	X	X
Beer	✓	✓	✓	✓	X	X	✓	X
Blood Products	✓	✓	✓	✓	✓	X	✓	X
Bread, Dough	X	X	X	X	X	X	✓	X
Cement	✓	X	✓	✓	X	X	✓	X
Cosmetics	✓	✓	✓	✓	X	✓	✓	X
Dairy	✓	✓	✓	✓	X	✓	✓	X
Education	✓	✓	✓	✓	✓	✓	✓	X
Fats/Cream	X	✓	X	✓	X	X	✓	X
Field Use	✓	✓	X	✓	X	✓	✓	X
Fish Products	✓	✓	✓	✓	X	X	✓	X
Lab Flasks	X	X	X	X	X	X	X	X
Low Ionic	X	✓	X	✓	X	✓	X	X
Meat, Cheese	X	X	X	X	X	X	✓	X
Micro Samples	X	X	✓	X	✓	X	✓	X
Paint	X	✓	✓	X	X	X	✓	X
Photographic	X	✓	X	X	X	X	X	X
Soil	✓	✓	✓	✓	X	X	X	X
Surface	X	X	X	X	X	X	✓	X
Test Tubes	X	X	✓	X	✓	X	X	X
Tris Buffer	X	X	X	X	✓	✓	X	X
Viscose Samples	X	✓	X	X	X	X	✓	✓

- ✓ Recommended
- ✓ Satisfactory
- X Not Compatible



For Emulsions, Liquors, Non-Aqueous samples and Oils use type be MEP076 or MPE076- For difficult samples. i.e. solutions, sulphide.

Portable Meter Ordering Information



CODE	PRODUCT DESCRIPTION		
MPM001	MESLO Portable pH Meter Model MP1 (Batteries Included)		
MIN001	MESLO Portable ION Meter Model MI1 (Batteries included)		
MPC001	MESLO Portable Combined pH/Conductivity Meter Model MPC1 (Batteries Included)		
MCM001	MESLO Portable Conductivity / TDS Meter MC1(batteries included)		
KITS			
MPM001-KIT	Portable pH meter, Batteries, MAE801 ATC Probe, Buffer capsule (pH4 and 7), 2x100ml bottles, MAC801 Carry Case, MEP001 Glass Combination pH Electrode		
MPC001-KIT	Portable Combined Meter, Batteries, MAE801 ATC Probe, Buffer capsule (pH4 and 7), 2x100ml bottles, MSA052 Cal Solution, MEC001 Conductivity Cell, MAC802 Carry Case, MEP001 Glass Combination pH Electrode		
MCM001-KIT	Portable MC1 Conductivity/TDS Meter, MEC001 Conductivity/ATC Cell, MSA052 1413 $\mu\text{S}/\text{cm}$ Standard, 4 x AA Batteries, 100ml Sample Bottle, MAC801 Small Carry Case		
ACCESSORIES			
MAR004	Rubber Boot and stand for MESLO Portable Meters		
MAD004	Data Kit for MESLO Portable meters		
MAC801	Hard Case Small		
MAC802	Hard Case Large		
MAE801	ATC probe for MP1/MPC1		
ELECTRODES			
MEP001	Glass Combination pH Electrode. 1 Metre cable BNC (for MP1, MI1, MPC1)		
MEP002	Polymer Combination pH Electrode. 1 Metre Cable BNC (for MP1, MI1, MPC1)		
MEC001	Conductivity Cell K=1 with Mini DIN (for MC1 and MPC1)		
SOLUTIONS			
MSA470	Buffer Solution pH 7.00 Yellow 500ml (for MP1, MI1, MPC1)		
MSA471	Buffer Solution pH 4.00 Red 500ml (for MP1, MI1, MPC1)		
MSA472	Buffer Solution pH 10.00 Blue 500ml (for MP1, MI1, MPC1)		
MSE867	Saturated KCl with Ag/AgCl filling solution 100ml (for MP1, MI1, MPC1)		
MSA052	Conductivity Cal Soln 1413 μS 100ml (for MC1 and MPC1)		
MSA053	Conductivity Cal Soln 12.88mS 100ml (for MC1 and MPC1)		
COMBINATION ISES FOR MI1			
MCI322	Fluoride Combination ISE		
MCI323	Nitrate Combination ISE		
MCI324	Chloride Combination ISE		
MCI325	Ammonium Combination ISE		
MCI326	Calcium Combination ISE		
MCI327	Bromide Combination ISE		
MCI328	Sodium Combination ISE (PVC)		
MCI329	Sulphide Combination ISE		
ISE SOLUTION FOR MI1			
MSS133	Fluoride 1000ppm Standard Solution 500ml	MIB306	Ammonium ISAB 500ml
MSS134	Nitrate 1000ppm Standard Solution 500ml	MIB307	Calcium ISAB 500ml
MSS135	Chloride 1000ppm Standard Solution 500ml	MIB308	Bromide ISAB 500ml
MSS136	Ammonium 1000ppm Standard Solution 500ml	MIB309	Sodium ISAB 500ml
MSS137	Calcium 1000ppm Standard Solution 500ml		
MSS138	Bromide 1000ppm Standard Solution 500ml		
MSS139	Sodium 1000ppm Standard Solution 500ml		
MIB303	Fluoride TISAB 500ml		
MIB304	Nitrate ISAB 500ml		
MIB305	Chloride ISAB 500ml		



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Your Scientific Partner in EMEA & The Americas



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