Benchtop Ion Meter

BEP-M300B

Description

- LCD display.
- Data Storage 500 sets.
- IP54 waterproof.
- Support for USB and RS-232 communication.











- The BEP-M300B Benchtop pH/Ion Meter is suitable for health and disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and higher institutes and other fields.
  The ion-selective electrode method
  has the advantages of simple operation
  and low detection limit.

Features

General Features

- High resolution LCD display, 7.0 inches.
- Multi-reading feature allows auto-read, timed-read and continuous-read.
- Automatic/Manual temperature compensation ensures accurate results.
- Auto-hold feature senses and locks the measurement endpoint.
- Data Storage 500 sets (GLP-compliant).
- Support for USB and RS-232 communication.
- Reset feature automatically resumes all settings back to factory default options.
- IP54 waterproof.



Features

pH

- 1-5 points calibration with Standard Recognition.
- Selectable pH buffer groups, including NIST, DIN, GB, USA and GOST standards.
- Automatic electrode diagnosis with pH slope and offset display.

Ion

- 1-5 points calibration.
- Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, PX, etc.
- Direct Reading mode.
- Over 10 methods are built-in, including F^-, Cl^-, Br^-, I^-, NO_3^-, BF_4^-, NH_4^+, K^+, Na^+, Ca^{2+}, Cu^{2+}, Pb^{2+}, Ag^+ and NH_3-N, etc., user-defined method is supported.



BEP-M300B pH/Ion Meter 1 Set

JB-10 Stirrer 1 Set

REX-5 electrode stand 1 Set

B620 Stirrer bar 3 Pieces

Power adapter DC 9V(European plug model, QD24-0902000-A1) 2 Pieces

Universal USB cable 1 Piece

Dust cover (Key function version) 1 Piece

Operation quick guide 1 Piece

Instruction manual 1 Piece

Specification

Model		BEP-M300B
Parameters		pH/ISE/Temp.(mV/pX)
pH	Range	-2.00 to 20.00 pH
	Resolution	0.1, 0.01 pH
	Accuracy	±0.01 pH
	Calibration Points	Up to 5
	Standard Customization	Yes
	Standard Recognition	NIST, GB, DIN, USA,GOST buffers
mV	Range	-2000.0 to 2000.0 mV
	Resolution	0.1
	Accuracy	±0.1% or ±0.3 mV of reading whichever is greater
pX	Range	-2.00 to 20.00 pX
	Resolution	0.1, 0.01 pX
	Accuracy	±0.01 pX
	Calibration Points	Up to 5
ISE	Range	1E-9 to 9.999E9
	Unit	mol/L, mmol/L, g/L, mg/L, µg/L, ppm,ppb
	Resolution	Up to 4 significant digits
	Accuracy	±0.3%
	Calibration Points	Up to 5
Temperature	Range	-5.0 to 110 °C, 23.0 to 230 °F
	Unit	°C, °F
	Resolution	0.1
	Accuracy	±0.2
Measurement	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data management	Data Storage	500 results each
	GLP Features	Yes
Inputs	Electrode	BNC(Q9)
Outputs	USB	PC
	RS 232	printer
Display options	Backlight	Yes
	Auto Shutdown	1~60 min, off
	IP Rating	IP54
	Date and Time	Yes
General	Electricity	AC Adapter, 100-240V AC input, DC9V output
	Dimensions	242×195×68 mm
	Weight	900g
	Package Dimension (W*D*H)	460×280×350 mm
	G.W.	4kg

Benchtop Ion Meter

BEP-M400B

Description

- The BEP-M400B Benchtop pH/Ion Meter is suitable for health and disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and higher institutes and other fields.
  The ion-selective electrode method has the advantages of simple operation and low detection limit.



- LCD display.
- Support for USB and RS-232.
- Data Storage 500 sets.
- IP54 waterproof.



Features

General Features

- High resolution LCD display, 7.0 inches.
- Multi-reading feature allows auto-read, timed-read and continuous-read.
- Automatic/Manual temperature compensation ensures accurate results.
- Auto-hold feature senses and locks the measurement endpoint.
- Data Storage 500 sets (GLP-compliant).
- Support for USB and RS-232 communication.
- Reset feature automatically resumes all settings back to factory default options.
- IP54 waterproof.

Features

pH

- 1-5 points calibration with Standard Recognition.
- Selectable pH buffer groups, including NIST, DIN, GB, USA, MERCK, and GOST standards.
- Automatic electrode diagnosis with pH slope and offset display.

Ion

- 1-7 points calibration.
- Selectable measurement unit, including μg/L, mg/L, g/L, mmol/L, PX, etc.
- Multi-measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.
- Over 10 methods are built-in, including F^-, Cl^-, Br^-, I^-, NO_3^-, BF_4^-, NH_4^+, K^+, Na^+, Ca^{2+}, Cu^{2+}, Pb^{2+}, Ag^+ and NH_3-N. user-defined method is supported.



BEP-M400B pH/Ion Meter 1 Set

JB-10 Stirrer 1 Set

REX-5 electrode stand 1 Set

B620 Stirrer bar 3 Pieces

Power adapter DC 9V(European plug model, QD24-0902000-A1) 2 Pieces

Universal USB cable 1 Piece

Dust cover (Key function version) 1 Piece

Operation quick guide 1 Piece

Instruction manual 1 Piece

Specification

Model		BEP-M400B
Parameters		pH/ISE/Temp.(mV/pX)
pH	Range	-2.000 to 20.000 pH
	Resolution	0.1, 0.01, 0.001pH
	Accuracy	±0.002 pH
	Calibration Points	Up to 5
	Standard Customization	Yes
	Standard Recognition	NIST, GB, DIN, USA， MERK and GOST buffers
mV	Range	-2000.00 to 2000.00 mV
	Resolution	1, 0.1, 0.01 mV
	Accuracy	±0.1 mV or ±0.03% of reading whichever is greater
pX	Range	-2.000 to 20.000 pX
	Resolution	0.1, 0.01, 0.001 pX
	Accuracy	±0.002 pX
	Calibration Points	Up to 7
ISE	Range	1E-9 to 9.999E9
	Unit	mol/L, mmol/L, g/L, mg/L, μg/L, ppm, ppb
	Resolution	Up to 4 significant digits
	Accuracy	±0.3%
	Calibration Points	Up to7
Temperature	Range	-10 to 135 °C, 14 to 275 °F
	Unit	°C, °F
	Resolution	0.1
	Accuracy	±0.1
Measurement	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data management	Data Storage	500 results each
	GLP Features	Yes
Inputs	pH Electrode	BNC(Q9)
	Temp. Probe	4-pin aviation connector
Outputs	USB	PC
	RS 232	printer
Display options	Backlight	Yes
	Auto Shutdown	1~60 min, off
	IP Rating	IP54
	Date and Time	Yes
General	Electricity	AC Adapter, 100-240V AC input, DC9V output
	Dimensions	242×195× 68 mm
	Weight	900g

Benchtop Ion Meter

BEP-M500B

Description

- Color High contrast LCD touchscreen.
- Data Storage 1000 sets for each parameter.
- IP54 waterproof.
- Support for USB and RS-232 communication.











- The BEP-M500B Benchtop pH/Ion Meter is suitable for health and disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and higher institutes and other fields.The ion-selective electrode method has the advantages of simple operation and low detection limit.

Features

General Features

- Color High contrast LCD touchscreen, 7.0 inches.
- Intelligent operation system provides features including user management, calibration management, method management, data management and etc.
- Multi-reading feature allows auto-read, timed-read and continuous-read.
- Automatic/Manual temperature compensation ensures accurate results.
- Data Storage 1000 sets for each parameter (GLP-compliant).
- Data analysis feature helps user review, compare and recalculate results.
- Support for USB and RS-232 communication.
- Reset feature automatically resumes all settings back to factory default options.
- IP54 waterproof.



Features

pH

- 1-6 points calibration with Standard Recognition.
- Selectable pH buffer groups, including DIN, NIST, USA, MERK, JIS, GB.
- Support for pH standard group customization.
- Automatic electrode diagnosis with pH slope and offset display.

Ion

- 1-6 points calibration
- Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, pX, ppm, etc.
- Multi-measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.
- Over 10 methods are built-in, including F^-, Cl^-, Br^-, I^-, NO_3^-, BF_4^-, NH_4^+, K^+, Na^+, Ca^{2+}, Cu^{2+}, Pb^{2+}, Ag^+ and etc., user-defined method is supported.



- BEP-M500B pH/Ion Meter 1 Set
- JB-10 Stirrer 1 Set
- REX-6 electrode stand 1 Set
- GC65-240270-F Power adapter DC24V 1 Piece
- European plug model(QD24-0902000-A1)Power adapter DC 9V (Positive inside and negative outside) 1 Piece
- B620 Stirrer bar 3 Pieces
- Dust cover (Touch screen version) 1 Piece
- European standard power cord(3VTJ2) 1 Piece
- Universal USB cable 1 Piece
- Touch pen (Capacitive screen) 1 Piece
- Instruction manual 1 Piece
- Operation quick guide 1 Piece

Specification

Model		BEP-M500B
Parameters		pH/ISE/Temp.(mV/ORP/pX)
pH	Range	-2.000 to 20.000 pH
	Resolution	0.1, 0.01, 0.001pH
	Accuracy	±0.002 pH
	Calibration Points	Up to 6
	Standard Customization	Yes
	Calibration Reminder	Yes
	Standard Recognition	NIST, GB, DIN, USA, MERK, JIS buffers
	Slope Limit	Yes
mV	Range	-2000.00 to 2000.00 mV
	Resolution	0.1, 0.01 mV
	Accuracy	±0.1 mV or ±0.03% of reading whichever is greater
	EH ORP Mode	Yes
	ORP Calibration Points	1 custom point (relative mV)
pX	Range	-2.000 to 20.000 pX
	Resolution	0.1, 0.01, 0.001 pX
	Accuracy	±0.002 pX
	Calibration Points	Up to 6
ISE	Range	1E-9 to 9.999E9
	Units	mol/L, mmol/L, g/L, mg/L, µg/L, ppm
	Resolution	Up to 4 significant digits
	Accuracy	±0.3%
	Calibration Points	Up to 6
Temperature	Range	-10 to 135 °C, 14 to 275 °F
	Unit	°C, °F
	Resolution	0.1
	Accuracy	±0.1
Measurement	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data management	Data Storage	1000 Groups
	GLP Features	Yes
	Log Management	Yes
Inputs	pH Electrode	BNC(Q9)
	Temp. Probe	4-pin aviation connector
Outputs	USB	USB 2.0 flash memory device, PC
	RS 232	printer, scanner, auto-sampler
Display options	Backlight	Yes
	Auto Shutdown	1~60 min, off
	IP Rating	IP54
	Date and Time	Yes
General	Electricity	AC Adapter, 100-240V AC input, DC24V output
	Dimensions	220×195×68 mm
	Weight	950g

Portable Ion Meter

BEP-M310P



- LCD display screen.
- Data capacity of up to 500 sets.
- Support for USB communication.
- IP67 waterproof.

pH

- 1-5 points calibration with Standard Recognition.
- Selectable pH buffer groups, including NIST, DIN, GB,USA.
- Automatic electrode diagnosis with pH slope and offset display.

Ion

- 1-5 points calibration.
- Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, pX, ppm, etc.
- Measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.
- Over 10 methods are built-in, including F^-, Cl^-, Br^-, I^-, NO_3^-, BF_4^-, NH_4^+, K^+, Na^+, Ca^{2+}, Cu^{2+}, Pb^{2+}, Ag^+ and etc., user-defined method is supported.

Features



LCD display screen, 4.3 inches.



Support for USB communication PC software, printer.



Tilting stand

Support better reading and operation



Wristbands Safety hold

Description

The BEP-M310P Portable pH/Ion Meter is suitable for health and disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and higher institutes and other fields.The ion-selective electrode method has the advantages of simple operation and low detection limit.

General Features

IP67 waterproof.

Data capacity of up to 500 sets for each parameter (GLP-compliant).

Multi-reading feature allows auto-read, timed-read and continuous-read.

Auto-power off feature effectively extends the battery service life.

Reset feature automatically resumes all settings back to factory default options.

Automatic/Manual temperature compensation ensures accurate results.

Auto-hold feature senses and locks the measurement endpoint.

Specification

Model		BEP-M310P
Parameters		pH/ISE/Temp.(mV/pX)
pH	Range	-2.00 to 20.00pH
	Resolution	0.1, 0.01 pH
	Accuracy	±0.01 pH
	Calibration Points	Up to 5
	Standard Customization	Yes
	Standard Recognition	NIST, GB ,USA and DIN buffers
	Slope Limit	Yes
mV/ORP	Range	-2000.0 to 2000.0 mV
	Resolution	0.1 mV
	Accuracy	±0.3 mV or ±0.1%
pX	Range	-2.00 to 20.00 pX
	Resolution	0.1, 0.01 pX
	Accuracy	±0.02 pX
	Calibration Points	Up to 5
ISE	Range	1E-9 to 9.999E9
	Units	mol/L, mmol/L, g/L, mg/L, µg/L,ppm.ppb
	Resolution	Up to 4 significant digits
	Accuracy	±0.5%
	Calibration Points	Up to 5
Temperature	Range	-5 to 110 °C, 23 to 230 °F
	Unit	°C, °F
	Resolution	0.1
	Relative Accuracy	±0.2
Measurement	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data management	Data Storage	1000 Groups
	GLP Features	Yes
Inputs	pH Electrode	BNC(Q9)
	Temp. Probe	4-pin aviation connector
Outputs	USB	PC, printer

Model		BEP-M310P
Display options	Backlight	Yes
	Auto Shutdown	300, 600, 1200, 1800, 3600sec., off
	IP Rating	IP67
	Date and Time	Yes
General	Electricity	Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V output
	Dimensions	90 x 255 x 40 mm
	Weight	500g



BEP-M310P pH/Ion Meter 1 Set

Power adapter DC 5V 2A(European plug model, GAT-0502000) 1 Pieces
Electrode holder 2 Pieces
MicroUSB cable 1 Piece
MicroUSB to DB25 printing cable 1 Piece
Touch pen (Capacitive screen) 1 Piece
Silicone rubber case (Installed on the host) 1 Piece
Wristband assembly(Large) 1 Piece
Carrying case 1 Piece
Operation quick guide 1 Piece
Instruction manual 1 Piece



Portable Ion Meter

BEP-M510P



- Color High contrast LCD touchscreen.
- Data Storage 1000 sets.
- Support for USB communication.
- IP67 waterproof.

pH

- 1-8 points calibration with Standard Recognition.
- Selectable pH buffer groups, including USA, NIST, DIN, GB, MERK, JIS.
- User-defined pH buffer or buffer group is supported.
- Automatic electrode diagnosis with pH slope and offset display.

Ion

- 1-8 points calibration.
- Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, pX, ppm, etc.
- Multi-measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.
- Over 10 methods are built-in, including F^-, Cl^-, Br^-, I^-, NO_3^-, BF_4^-, NH_4^+, K^+, Na^+, Ca^{2+}, Cu^{2+}, Pb^{2+}, Ag^+ and etc., user-defined method is supported.

Features



Color High contrast LCD touchscreen, 4.3 inches.



USB communication for PC software, USB 2.0 flash drive, barcode scanner.



Intelligent operation system provides features including user management, calibration management, electrode management, method management, data management, Log Management and etc.



Data analysis feature helps user review, compare and recalculate results.

Description

The BEP-M510P Portable pH/Ion Meter is suitable for health and disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and higher institutes and other fields.The ion-selective electrode method has the advantages of simple operation and low detection limit.

General Features

IP67 waterproof.

Data Storage 1000 sets for each parameter (GLP-compliant).

Multi-reading feature allows auto-read, timed-read and continuous-read.

Auto-power off feature effectively extends the battery service life.

Reset feature automatically resumes all settings back to factory default options.

Automatic/Manual temperature compensation ensures accurate results.

Auto-hold feature senses and locks the measurement endpoint.

Specification

Model		BEP-M510P
Parameters		pH/ISE/Temp.(mV/ORP/pX)
pH	Range	-2.000 to 20.000 pH
	Resolution	0.1, 0.01, 0.001pH
	Accuracy	±0.002 pH
	Calibration Points	Up to 8
	Standard Customization	Yes
	Calibration Reminder	Yes
	Standard Recognition	USA, NIST, MERK, JIS, GB and DIN buffers
	Slope Limit	Yes
mV/ORP	Range	-2000.00 to 2000.00 mV
	Resolution	0.1, 0.01 mV
	Accuracy	±0.1 mV or ±0.03% of reading whichever is greater
	EH ORP Mode	Yes
	ORP Calibration Points	1 custom point (relative mV)
pX	Range	-2.000 to 20.000 pX
	Resolution	0.1, 0.01, 0.001 pX
	Accuracy	±0.002 pX
	Calibration Points	Up to 6
ISE	Range	1E-9 to 9.999E9
	Units	mol/L, mmol/L, g/L, mg/L, µg/L,ppm, ppb
	Resolution	Up to 4 significant digits
	Accuracy	±0.3%
	Calibration Points	Up to 8
Temperature	Range	-10 to 135 °C, 14 to 275 °F
	Unit	°C, °F
	Resolution	0.1
	Relative Accuracy	±0.1
Measurement	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data management	Data Storage	1000 Groups
	GLP Features	Yes
Inputs	pH Electrode	BNC(Q9)
	Temp. Probe	4-pin aviation connector

Model		BEP-M510P
Outputs	USB	USB 2.0 flash memory device, PC, scanner
Display options	Backlight	Yes
	Auto Shutdown	300, 600, 1200, 1800, 3600 sec., off
	IP Rating	IP67
	Date and Time	Yes
General	Electricity	Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V output
	Dimensions	90×255×40 mm
	Weight	500g



BEP-M510P pH/Ion Meter 1 Set
Power adapter DC 5V 2A(European plug model, GAT-0502000) 1 Piece
Electrode holder 2 Pieces
MicroUSB cable 1 Piece
OTG adapter cable (MicroUSB connector) 1 Piece
Touch pen (Capacitive screen) 1 Piece
Silicone rubber case (Installed on the host) 1 Piece
Wristband assembly(Large) 1 Piece
Carrying case 1 Piece
Operation quick guide 1 Piece
Instruction manual 1 Piece



Benchtop Ion Meter

BEP-M130



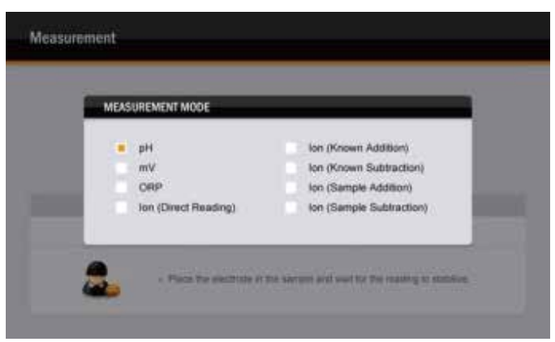
Measurement Parameters

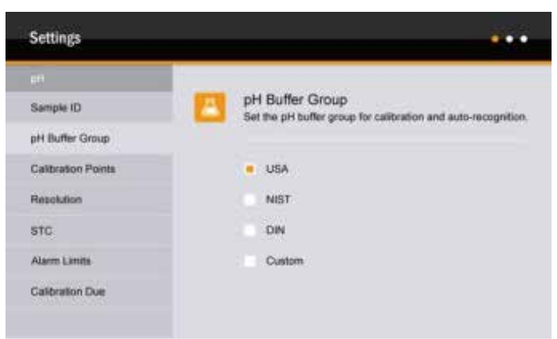
BEP-M130:
pH, mV, relative mV, ion concentration, water hardness, temperature

ORP

1 point offset calibration allows adjusting the displayed value to a known standard

Relative and absolute millivolt modes ensure the reliable ORP measurements





pH

1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers

Automatic electrode diagnosis shows the pH slope and offset

Solution temperature coefficient compensates for the pure water samples and references the pH to 25°C

Ion Concentration

2 to 5 points calibration, including the 8 concentration points can be selected

Automatic electrode diagnosis shows the calibration points and slopes

2 to 5 points calibration from low to high concentrations

Electrode management is capable of storing and recalling up to 3 electrode slopes

Selectable ion measurement methods (direct reading, known addition, known subtraction, sample addition, sample subtraction) and concentration units (ppm, mg/L, mol/L or mol/L)
Water Hardness

Selectable measurement units(German degree, English degree,French degree,mmol/L and mg/L) are used for professional water hardness measurements

General Features

Auto-Read function senses and locks the measurement endpoint.

Timed Interval Readings sends the measurement data to a PC or printer.

Limit Alarm automatically alerts when reading exceeds the specified range.

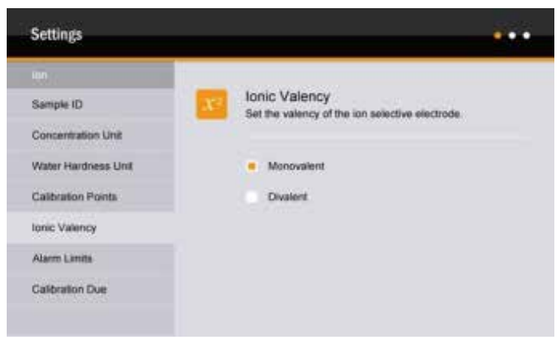
Password protection prevents the unauthorized calibration and settings.

Reset function automatically resumes all settings back to the factory defaults.

Expanded memory stores or recalls up to 1000 data sets.

- Calibration due alarm prompts user to calibrate the meter regularly.
- Calibration report shows the date, time, pH slope and offset.





Specification

Infitek

Model		BEP-M130
pH		
Range	-2.000-20.000pH	•
Resolution	0.001,0.01, selectable	•
Accuracy	±0.002pH	•
Calibration Points	1 to 5 points	•
Ph Buffer Options	USA, NIST, DIN, 5 custom buffers	•
ORP		
mV Range	±2000.0mV	•
Relative mV Range	±2000.0mV	•
Resolution	0.1mV	•
Accuracy	±0.2mV	•
Calibration Points	1 point	•
Ion		
Range	0.001~30000 (depending on the range of ISE)	•
Resolution	0.001,0.01,0.1,1	•
Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent))	•
Measurement Units	ppm, mg/L, mol/L, mmol/L	•
Calibration Points	2 to 5 points (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000)	•
Measurement Methods	Direct reading, known addition, known subtraction, sample addition, sample subtraction	•
Electrode Management	1 to 3 electrodes	•
Water Hardness		
Range	0.05~200mmol/L, 0~1122°dH, 0~1404°e, 0~2000°fH, 0~8000mg/L (Ca2+)	•
Resolution	0.001,0.01,0.1,1	•
Accuracy	±1% F.S.	•
Calibration Points	2to 5points 0.01,0.1,1.10,100mmol/L)	•
Temperature		
Range	0~105°C/32~221°F	•
Resolution	0.1°C/0.1°F	•
Accuracy	±05°C/0.9°F	•
Offset Calibration	1 point, reading ±10°C	•
Other Specifications		
Temperature Compensation	0~100°C, manual or automatic	•
Solution Temperature Coefficient	25°C	•
Stability Criteria	Standard or high-accuracy	•
Calibration Due Alarm	1to 31 days or off	•
Interval Readings	10, 30, 60 seconds, 10, 30 minutes or off	•
Password Protection	4digits	•
Memory	1000 data sets	•
Communication Interface	USB	•
Connector	BNC, 3.5 mm jack socket	•
Display	7 inches TFT LCD	•
Power Requirements	DC12V power adapter	•
Dimensions	240(L)× 220 (W)× 80(H)mm	•
Weight	1.7kg	•

Portable Ion Meter

BEP-M320



pH

1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers

Automatic electrode diagnosis shows the pH slope and offset



ORP

1 point offset calibration allows to adjust the displayed value to a known standard

Relative and absolute millivolt modes ensure the reliable ORP measurements

Ion Concentration

2 to 5 points calibration, including the 8 concentration points that can be selected

Direct ion concentration readout simplifies the measurement process

Automatic electrode diagnosis shows the calibration points and slopes



Measurement Parameters

• BEP-M320: pH, mV, relative mV, ion concentration, temperature

Other Features

Automatic temperature compensation ensures accurate readings over the entire range
Auto-Read function senses and locks the measurement endpoint
Auto-Power Off effectively conserves battery life

Calibration due alarm prompts user to calibrate the meter regularly
Setup menu allows to set the number of calibration points,resolution,stability criteria, temperature unit, date and time, etc.
Reset function automatically resumes all settings back to the factory defaults

Expanded memory stores or recalls up to 500 data sets
USB communication interface is easy to transfer data to PC
Multi-mode power scheme (batteries, power adapter and USB port) ensures that using

Optional Ion Selective Electrodes

Ammonium (NH_4^+), bromide (Br^-), cadmium (Cd^{2+}), calcium (Ca^{2+}), chloride (Cl^-), cupric (Cu^{2+}), cyanide (Cn^-), fluoride (F^-), Iodide (I^-), lead (Pb^{2+}), nitrate (NO_3^-), po·tassium (K^+),silver (Ag^+), sodium (Na^+), sulphide (S^{2-}) and ammonia (NH_3)



Specification

Model			BEP-M320
PH	Range	-2.000-20.000pH	•
	Resolution	0.001,0.01,0.1pH,selectable	•
	Accuracy	0.002pH	•
	Calibration Points	1 to 5 points	•
	pH Buffer Options	USA,NIST,DIN,2 custom buffers	•
Ion	Range	0.001-19999(depending on the range of ISE)	•
	Resolution	0.001,0.01,0.1,1	•
	Accuracy	±0.5% FS.(monovalent),±1% FS.(divalent)	•
	Measurement Units	ppm, mg/L,mol/L, mmol/L	•
	Calibration Points	2to 5 points	•
	Calibration Solutions	0.001,0.01,0.1,1,10,100,1000,10000	•
ORP	mV Range	±1999.9mV	•
	Relative mV Range	±1999.9mV	•
	Resolution	0.1, 1mV, selectable	•
	Accuracy	±0.2mV	•
	Calibration Points	1 point	•
Temperature	Range	0~105°C/32~221°F	•
	Resolution	0.1°C/0.1°F	•
	Accuracy	±0.5°C/±0.9°F	•
	Offset Calibration	1 point, reading ±10°C	•
Other Specifications	temperature Compensation	0~100°C, manual or automatic	•
	Stability Criteria	Low or high	•
	Calibration Due Alarm	1 to 31 days or off	•
	Slope/Offset Display	Yes	•
	Hold Function	Manual or auto-endpoint	•
	Auto-Off	10, 20 or 30 minutes after the last key is pressed	•
	Memory	500 data sets	•
	Communication Interface	USB	•
	Connector	BNC,3.5mm jack socket	•
	Display	Custom LCD (80×60mm)	•
	Power Requirements	3× 1.5V AA batteries or DC5V power adapter	•
	Battery Life	Approximately 150 hours (Turn off the backlight)	•
	Dimensions	170(L)×85(W)×30(H)mm	•
	Weight	300g	•

Benchtop Ion Meter

BEP-M930









Measurement Parameters

• BEP-M930: pH, mV, relative mV, ion concentration, temperature

Features

pH

1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers

Automatic electrode diagnosis shows the pH slope and offset

ORP

1 point offset calibration allows to adjust the displayed value to a known standard

Relative and absolute millivolt modes ensure the reliable ORP measurements

Ion Concentration

• 2 to 5 points calibration, including the 8 concentration points can be selected
• Direct ion concentration readout simplifies the measurement process
• Automatic electrode diagnosis shows the calibration points and slopes

General Features

Automatic temperature compensation ensures accurate readings over the entire range.
Auto-Read function senses and locks the measurement endpoint.

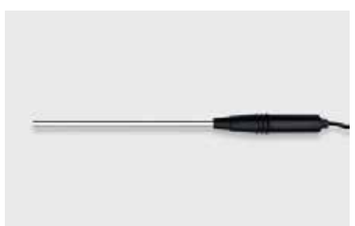
Calibration due alarm prompts user to calibrate the meter regularly.
Setup menu allows setting the number of calibration points,resolution,stability criteria, temperature unit, date and time, etc.

Reset function automatically resumes all settings back to the factory defaults.
Expanded memory stores or recalls up to 500 data sets.
USB communication interface for data transfer and timed interval readings.

Optional Ion Selective Electrodes

Ammonium (NH_4^+), bromide (Br^-), cadmium (Cd^{2+}), calcium (Ca^{2+}), chloride (Cl^-), cupric (Cu^{2+}), cyanide (Cn^-), fluoride (F^-), Iodide (I^-), lead (Pb^{2+}), nitrate (NO_3^-), po·tassium (K^+),silver (Ag^+), sodium (Na^+), sulphide (S^{2-}) and ammonia (NH_3)





Specification

Model		BEP-M 930
pH		
Range	-2.000~20.000pH	•
Resolution	0.001, 0.01, 0.1pH, selectable	•
Accuracy	±0.002pH	•
Calibration Points	1 to 5 points	•
pH Buffer Options	USA, NIST, DIN, 2 custom buffers	•
Ion		
Range	0.001~19999 (depending on the range of ISE)	•
Resolution	0.001, 0.01, 0.1, 1	•
Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	•
Measurement Units	ppm, mg/L, mol/L, mmol/L	•
Calibration Points	2 to 5 points	•
Calibration Solutions	0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000	•
ORP		
mV Range	±1999.9mV	•
Relative mV Range	±1999.9mV	•
Resolution	0.1, 1mV, selectable	•
Accuracy	±0.2mV	•
Calibration Points	1 point	•
Temperature		
Range	0~105°C/32~221°F	•
Resolution	0.1°C/0.1°F	•
Accuracy	±0.5°C/±0.9°F	•
Offset Calibration	1 point, reading ±10°C	•
Other Specifications		
Temperature Compensation	0~100°C, manual or automatic	•
Stability Criteria	Low or high	•
Calibration Due Alarm	1 to 31 days or off	•
Slope/Offset Display	Yes	•
Hold Function	Manual or auto-endpoint	•
Memory	500 data sets	•
Communication Interface	USB	•
Connector	BNC, 3.5mm jack socket	•
Display	Custom LCD(125x100mm)	•
Power Requirements	DC5V power adapter	•
Dimensions	210(L)× 188 (W)×60(H)mm	•
Weight	1.5kg	•

Pocket Ion Meter

ION-BT30







Description

- High-performance blue tooth water quality testers, The testers are suitable for Android smartphone or tablet.

- **ION-BT30 Ion Tester**
- 2 to 5 points calibration, including the 8 concentration points can be selected.
- Electrode management is capable of storing and recalling up to 3 electrode slopes.
- Automatic electrode diagnosis shows the calibration points and slopes
- Selectable ion measurement methods (direct reading, known addition, known subtraction, sample addition, sample subtraction) and concentration units (ppm,mg/L, mol/L or mmol/L).

Ordering Information

- ION-BT30: Tester, ion selective electrode, standard solutions (100/1000ppm), ionic strength adjuster and carrying case





General Features

- Automatic temperature compensation ensures accurate readings over the entire range.
- Auto-Read function senses and locks the measurement endpoint.
- Timed Interval Readings sends the measurement data to memory or printer.
- Limit Alarm automatically alerts when reading exceeds the specified range.
- Calibration due alarm prompts user to calibrate the tester regularly.
- Password protection prevents the unauthorized calibration and settings.
- Multiparameter measurement allows up to 3 testers connected to device and displays the measured values.
- Reset function automatically resumes all settings back to the factory defaults.

Specification

Model		ION-BT30
Ion	Range	0.001-30000 (depending on the range of ISE)
	Resolution	0.001,0.01,0.1,1
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)
	Measurement Units	ppm.mg/L,mol/L, mmol/L
	Calibration Points	2 to 5 points
	Calibration Solutions	0.001,0.01,0.1,1,10,100,1000,10000
	Temperature Compensation	0~100°C/32~212°F, manual
	Measurement Methods	Direct reading, known addition, known subtraction, sample addition, sample subtraction
MV	Electrode Management	1 to 3 electrodes
	Range	±2000.0mV
	Resolution	0.1, 1mV, selectable
	Accuracy	402mV

Electrode

Applicable Model:

BEP-M300B、BEP-M400B、BEP-M500B、BEP-M310P、BEP-M510P

Combined ISE Selective Electrodes

Model	Species	Measuring Range	Membrane	Body	Dimension	Working Temp.	Connector	Junction	Reference Electrolyte	Reference Type	Working pH
701	Sodium (Na^+)	1×10^{-6}~0.1 M 23μg/L-2.3g/L	G	G	Φ12×120 mm	5~45 ℃	BNC(Q9)	Ceramic	1 M NH_4Cl	Ag/AgCl	/
PF-202-C	Fluoride (F^-)	1×10^{-6}~0.1 M 19μg/L-1.9g/L	C	P	Φ12×120 mm	5~45 ℃	BNC(Q9)	Fabric	3 M KCl	Ag/AgCl	/
PF-202	Fluoride (F^-)	1×10^{-6}~0.1 M 19μg/L-1.9g/L	C	P	Φ12×120 mm	5~60 ℃	BNC(Q9)	POM	U	Ag/AgCl	/
972101	Fluoride (F^-)	1.0×10^{-6} M ~ saturation 19μg/L ~ saturation	C	P	Φ12×120 mm	0~80 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	5~7
972102	Chloride (Cl^-)	5.0×10^{-5} ~ 1.0M 1.775mg/L-35.5g/L	S	P	Φ12×120 mm	0~80 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	2~12
972103	Bromide (Br^-)	2.0×10^{-6} ~ 1.0M 0.16mg/L-79.9g/L	S	P	Φ12×120 mm	0~80 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	2~13
972104	Iodide (I^-)	1.0×10^{-7} ~ 1.0M 12.7μg/L-127g/L	S	P	Φ12×120 mm	0~80 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	0~12
972105	Cupric (Cu^{2+})	1.0×10^{-7} ~ 0.1M 6.4μg/L-6.4g/L	S	P	Φ12×120 mm	0~80 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	2~12
972106	Lead (Pb^{2+})	1.0×10^{-6} ~ 0.1M 207μg/L-20.7g/L	S	P	Φ12×120 mm	0~80 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	4~7
972207	Sodium (Na^+)	1.0×10^{-6} M ~ saturation 2.3μg/L ~ saturation	G	G	Φ12×120 mm	0~80 ℃	S7	Separate ring grinding mouth glass	S	ClickOk Ref.	6~12
972121	Potassium (K^+)	1.0×10^{-6} ~ 1.0M 0.039mg/L-39g/L	P	P	Φ12×120 mm	0~40 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	2.5~11
972122	Ammonium (NH_4^+)	1.0×10^{-6} M~ 1.0M 17μg/L-17g/L	P	P	Φ12×120 mm	0~40 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	2~9
972123	Nitrate (NO_3^-)	1.0×10^{-5} ~ 1.0M 620μg/L-62g/L	P	P	Φ12×120 mm	0~40 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	2.5~11
972124	Calcium (Ca^{2+})	5×10^{-7} ~ 1.0M 20μg/L-40g/L	P	P	Φ12×120 mm	0~40 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	2.5~11
972125	Fluoroborate(BF_4^-)	1.0×10^{-6} ~ 0.1M 87μg/L-8.7g/L	P	P	Φ12×120 mm	0~40 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	2.5~11
972126	Perchlorate (ClO_4^-)	1.0×10^{-5} ~ 0.1M 1mg/L-10g/L	P	P	Φ12×120 mm	0~40 ℃	BNC(Q9)	Separate ring grinding mouth glass	S	ClickOk Ref.	6~12
972140	Ammonia(NH_3)	1.0×10^{-6}~1.0M 17μg/L-17g/L	G	P	Φ12×120 mm	0~50 ℃	BNC(Q9)	/	/	/	>11
972150	Residual chlorine	(0.01-20) ppm (Cl_2)	S	P	Φ12×120 mm	0~60 ℃	BNC(Q9)	/	/	/	4

Ion Selective Electrode(Single)

Model	Species	Measuring Range	Membrane	Body	Dimension	Working Temp.	Working pH	Interferences	Connector
PF-2-01	Fluoride (F^-)	1.0×10^{-6}~0.1M 19μg/L-1.9g/L	C	P	Φ12×120 mm	5~45 ℃	4~8	OH^-	BNC(Q9)
PF-3-01	Fluoride (F^-)	1.0×10^{-6}~0.1M 19μg/L-1.9g/L	C	G	Φ12×120 mm	5~45 ℃	4~8	OH^-	BNC(Q9)
PCl-1-01	Chloride (Cl^-)	5×10^{-5}~0.1M 1.775mg/L-3.55g/L	S	P	Φ12×120 mm	5~60 ℃	2~10	Br^-, I^-, CN^-, S^{2-}	BNC(Q9)
PBr-1-01	Bromide (Br^-)	5×10^{-6}~0.1M 0.4mg/L-7.99g/L	S	P	Φ12×120 mm	5~60 ℃	2~11	I^-, CN^-, S^{2-}	BNC(Q9)
PI-1-01	Iodide (I^-)	5×10^{-7}~0.1M 63.5μg/L-12.7g/L	S	P	Φ12×120 mm	5~60 ℃	2~10	Cl^-, Br^-, S^{2-}	BNC(Q9)
PK-1-01	Potassium (K^+)	1×10^{-5}~0.1M 0.39mg/L-3.9g/L	P	P	Φ12×120 mm	5~60 ℃	4~11	NH_4^+, Cs^+	BNC(Q9)
PCa-1-01	Calcium (Ca^{2+})	1×10^{-5}~0.1M 0.4mg/L-4g/L	P	P	Φ12×120 mm	5~60 ℃	4~10	Pb^{2+}	BNC(Q9)
PCu-1-01	Cupric (Cu^{2+})	5×10^{-7}~0.1M 32μg/L-6.4g/L	S	P	Φ12×120 mm	5~60 ℃	3~6	Hg^+, Ag^+, Fe^{3+}, Cl^-, Br^-, S^{2-}	BNC(Q9)
PPb-1-01	Lead (Pb^{2+})	5×10^{-7}~0.1M 104μg/L-20.7g/L	S	P	Φ12×120 mm	5~60 ℃	4~8	Hg^+, Ag^+, Cu^{2+}	BNC(Q9)
PNO3-1-01	Nitrate (NO_3^-)	1×10^{-5}~0.1M 620μg/L-6.2g/L	P	P	Φ12×120 mm	5~60 ℃	4~9	High concentration anion	BNC(Q9)
PClO4-1-01	Perchlorate (ClO_4^-)	5×10^{-6}~0.1M 0.5mg/L-10g/L	P	P	Φ12×120 mm	5~60 ℃	4~10	/	BNC(Q9)
PAg/S-1-01	Silver/Sulfide (Ag^+/S^{2-})	3×10^{-7}~0.1M 32.4μg/L-10.8g/L	S	P	Φ12×120 mm	5~60 ℃	2~12	/	BNC(Q9)
PBF4-1-01	Fluoborate (BF_4^-)	3×10^{-6}~0.1M 261μg/L-8.7g/L	P	P	Φ12×120 mm	5~60 ℃	3.5~4.5	High concentration anion	BNC(Q9)
PCN-1-01	Cyanide (CN^-)	1×10^{-6}~0.1M 26μg/L-0.26g/L	S	P	Φ12×120 mm	5~60 ℃	11~13	/	BNC(Q9)

Membrane: C Crystalline state membrane; S Solid state membrane; P polymer membrane; G glass

Membrane Body: P Plastic; O Organic glass; G Glass.

Reference Electrolyte: U Unfillable; S Special solution.

Temperature Electrode

Model	Measurement Range	Connector Type	Sensor Material	Dimension	Temp. Compensation Unit
T-818-Q	-5~105 ℃	4-pin aviation	316 stainless steel	Φ4×120 mm	2.25KΩ
T-818-A-6	-5~105 ℃	BNC (Q6)	316 stainless steel	Φ4×120 mm	PT-100
T-820D	-5~105 ℃	BNC (Q6)	316 stainless steel	Φ4×120 mm	PT-1000

Reference Electrode

Model	Type of Electrode	Fill Solution	Applicable Model	Work Temperature	Junction Material	Sensor Material	Dimension	Connector Type
232-01(Titrator) 232-01-X(pH/ISE meter)	Saturated single junction calomel electrode	Saturated KCl solution	PF-2-01 PF-3-01 PNO3 -1-01 PBF4-1-01 PCa-1-01	5~55 ℃	ceramic	Glass	Φ12×120 mm	U Shape——Titrator Banana 2mm——pH/ISE meter BNC(Q9)
217-01(Titrator) 217-01-X(pH/ISE meter)	Saturated double junction calomel electrode	Fill SolutionSaturated KCl solution(inner solution) + solution(Flexible choose)	PBr-1-01 PI-1-01 PPb-1-01 PCN-1-01 PClO4-1-01 PK-1-01	5~55 ℃	ceramic	Glass	Φ12×120 mm	U Shape——Titrator Banana 2mm——pH/ISE meter BNC(Q9)
C(K2SO4)-1 (Titrator) C(K2SO4)-1-X (pH/ISE meter)	Mercuric sulfate single junction electrode	Saturated K_2SO_4	PCl-1-01 PCu-1-01 PAg/S-1-01	5~55 ℃	ceramic	Glass	Φ12×120 mm	U Shape——Titrator Banana 2mm——pH/ISE meter BNC(Q9)



Electrode

Applicable Model:

BEP-M320、ION-BT30、BEP-M930、BEP-M130

Combination ion selective electrode

Model	Ion	Limits (ppm)	Interferences	pH Range	Operating Temperature
ISE-NH4	Ammonium	0.1...18000	Ca^{2+}, Na^{+}, K^{+}	2~7	5~50 ℃/41~122ºF
ISE-Br	Bromide	0.4...81000	I^{-}, S^{-}, CN^{-}, Cl^{-}	1~12	5~50 ℃/41~122ºF
ISE-Cd	Cadmium	0.1...11200	Cu^{2+}, Hg^{2+}, Ag^{+}	3~7	5~50 ℃/41~122ºF
ISE-Ca	Calcium	0.02...40100	Ba^{2+}, Cu^{2+}, Sr^{2+}	3.5~11	5~50 ℃/41~122ºF
ISE-CL	Chloride	1...35000	I^{-}, Br^{-}, CN^{-}, S^{2-}	1~12	5~50 ℃/41~122ºF
ISE-Cu	Copper	0.06...6400	Hg^{2+}, Ag^{+}, S^{2-}	2~7	5~50 ℃/41~122ºF
ISE-Cn	Cyanide	0.03...260	I^{-}, Br^{-}, S^{2-}	11~13	5~50 ℃/41~122ºF
ISE-F	Fluoride	0.02...1900	OH^{-}	4~8	5~50 ℃/41~122ºF
ISE-I	Iodide	0.06...127000	S^{2-}, CN^{-}	2~12	5~50 ℃/41~122ºF
ISE-Pb	Lead	0.2...20800	Hg^{2+}, Ag^{+}, Cu^{2+}	3~7	5~50 ℃/41~122ºF
ISE-NO3	Nitrate	0.4...62000	Cl^{-}, NO_2^{-}	2~11	5~50 ℃/41~122ºF
ISE-K	Potassium	0.04...39000	Cs^{+}, NH_4^{+}	1~9	5~50 ℃/41~122ºF
ISE-Ag	Silver	0.01...107900	Hg^{2+}	1~9	5~50 ℃/41~122ºF
ISE-Na	Sodium	0.002...69000	Ag^{+}, Li^{+}, K^{+}, Tl^{+}	9~12	5~50 ℃/41~122ºF
ISE-S	Sulfide	0.003...32000	Hg^{2+}, Ag^{+}	13~14	5~50 ℃/41~122ºF
ISE-NH3	Ammonia	0.01...17000	Hydrazine	11~13	5~50 ℃/41~122ºF



ISE-NH3　　ISE-Na　　Other Types of Ion Electrodes

Temperature Electrode

Model	Material	Sensor	Measuring Range	Operating Temperature	Connector	Cable Length	Weight	Dimensions
TP-10K	Stainless Steel	NTC 10KΩ	0~105ºC	0~50ºC	3.5 mm audio jack	1m	25 g	120(L)×3(Ø)mm