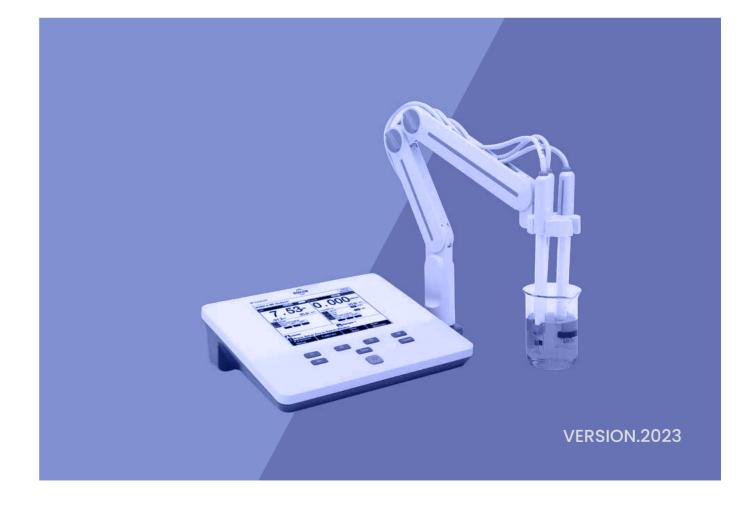
# **MULTIPARAMETER METERS**

















# Description

• The RLIFT-BEP-M300A Benchtop Multi-parameter Analyzer adopts a multi-purpose measurement method, which is suitable for the fields of health disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and institutions of higher learning.

## **Features**

### **General Features**

- High resolution LCD display, 5.7 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 or RS-232 communication.
- Reset feature automatically resumes all settings back to factory default options.
- IP54 waterproof.

### pН

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

### lon

- 1-5 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-, CI-, Br-, I-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+ and etc., user-defined method is supported.

#### Conductivity

- 1-3 points calibration with Standard Recognition.
- Settable parameters, including cell constant, temperature compensation coefficient and TDS factor.
- Temperature compensation type (none, linear, pure water).





#### RLIFT-BEP-M300A Multi-parameter Analyzer 1 Set

E-301-QC 3 in 1 pH composite electrode 1 Piece

DJS-1VTC Conductivity electrode 1 Piece

Standard pH Buffer Solution (50mL) (pH4.01, 7.00, 10.01) 1 Bottle each

Conductivity standard 1413µS/cm(50mL) 1 Bottle

REX-5 electrode stand 1 Set

European plug model(QD24-0902000-A1)Power adapter DC 9V (Positive inside and negative outside) 1 Piece

Universal USB cable 1 Piece

Dust cover (Key function version) 1 Piece

Operation quick guide 1 Piece

Instruction manual 1 Piece

Model		RLIFT-BEP-M300A	
Parameters	S	pH/EC/ISE/Temp. (mV/ORP/pX/Resistivity/TDS/Sal.)	
	Range	-2.00 to 20.00pH	
	Resolution	0.1, 0.01 рН	
рН	Accuracy	±0.01 pH	
	Calibration Points	Up to 5	
	Standard Customization	Yes	
	Standard Recognition	NIST, GB and DIN buffers	
	Slope Limit	Yes	
mV	Range	-2000.0 to 2000.0 mV	
	Resolution	0.1 mV	
	Accuracy	±0.3 mV or ±0.1%	
рΧ	Range	-2.00 to 20.00	
	Resolution	0.1, 0.01 pX	
	Accuracy	±0.01 pX	
	Calibration Points	Up to 5	
	Range	1E-9 to 9.999E9	
ISE	Unit	mol/L, mmol/L, g/L, mg/L, μg/L, ppm	
	Resolution	Up to 4 significant digits	
	Accuracy	±0.5%	
	Calibration Points	Up to 5	
	Range	0.000 μS/cm to 1000 mS/cm	
Conduc-	Resolution	0.001 µS/cm minimum, various with range selection	
tivity	Accuracy	±1.0% FS	
,	Reference Temperature	20, 25 °C	
	Calibration Points	Up to 3	
	Standard Recognition	84µS/cm, 1413µS/cm, 12.88mS/cm	
Resistivity	Range	5.00 Ω·cm~20.00 MΩ·cm	
	Resolution	0.01 Ω·cm minimum	
	Accuracy	±1.0% FS	
TDS	Range	0.00ppm~300ppt	
	Resolution	0.01mg/L minimum, various with range selection	
	Accuracy	±1.0% FS	
Salinity	Range	0-80ppt	
	Resolution	0.1ppt	
	Accuracy	±2ppt	

Model		RLIF
	Range	-5 to
Temperature	Unit	°C, °
	Resolution	0.1
	Accuracy	±0.2
	Reading Mode	Auto
Measurement	Reading Prompts	Read
	Temp. Compensation	ATC,
Data manage-	Data Storage	500
ment	GLP Features	Yes
	pH Electrode	BNC
nputs	DO with Temp. Probe	4-pi
	Conductivity with Temp. Probe	5-pi
	USB	USB
Outputs	RS 232	print
	Backlight	Yes
Diaplay aptions	Auto Shutdown	1~60
Display options	IP Rating	IP54
	Date and Time	Yes
	Electricity	AC A
General	Dimensions	242×
	Weight	9000





# FT-BEP-M300A

to 110 °C, 23 to 230 °F °F

to Read (Fast, Medium, Slow), Timed, Continuous

ading, Stable, Locked

C, MTC

) results each

C(Q9)

oin aviation connector

oin aviation connector

B 2.0 flash memory device, PC

nter

min, off

# Adapter, 100-240V AC input, DC9V output

2×195× 68 mm

Ŋg

### **BEP-M300F**



### pН

- 1-5 points calibration with Standard Recognition.
- Selectable pH buffer groups, including NIST, DIN, GB.

Automatic electrode diagnosis with pH slope and offset display.

### Conductivity

- 1-3 points calibration with Standard Recognition.
- Settable parameters, including cell constant, temperature compensation coefficient and TDS factor.
- Temperature compensation type (none, linear, pure water).

### DO

- Support for air-saturated water or zero oxygen calibration.
- Auto barometric pressure compensation

### **Features**





High resolution LCD display, 5.7 inches.

nication. Smart UI design Best user experi-Multiple external devices available ence, highly efficient measurement PC, printer



Description

biological agriculture and forestry, water quality analysis, scientific research and institutions

## **General Features**

### lon

- ♦ 1-5 points calibration.
- Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, PX, etc.
- $\blacklozenge$ 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-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+and etc., user-defined method is supported.







- Selectable pressure unit, including kPa, mbar, Torr, Atm.
- Manual Salinity Factor Correction

Support for USB or RS-232 commu-



Automatic identification standard solution

Fast calibration and more accurate measurement

The BEP-M300F Benchtop Multi-parameter Analyzer adopts a multi-purpose measurement method, which is suitable for the fields of health disease control, environmental protection,

Model		BEP-M300F
Parameters		pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO Saturation)
	Range	-2.00 to 20.00pH
	Resolution	0.1, 0.01 pH
	Accuracy	±0.01 pH
рН	Calibration Points	Up to 5
	Standard Customization	Yes
	Standard Recognition	NIST, GB and DIN buffers
	Slope Limit	Yes
	Range	-2000.0 to 2000.0 mV
mV	Resolution	0.1 mV
	Accuracy	±0.3 mV or ±0.1%
	Range	-2.00 to 20.00
рХ	Resolution	0.1, 0.01 pX
PA	Accuracy	±0.01 pX
	Calibration Points	Up to 5
	Range	1E-9 to 9.999E9
	Unit	mol/L, mmol/L, g/L, mg/L, μg/L, ppm
ISE	Resolution	Up to 4 significant digits
	Accuracy	±0.5%
	Calibration Points	Up to 5
	Range	0.000 µS/cm to 1000 mS/cm
	Resolution	0.001 µS/cm minimum,various with range selection
Conductivity	Accuracy	±1.0% FS
conducting	Reference Temperature	20, 25 °C
	Calibration Points	Up to 3
	Standard Recognition	84µS/cm, 1413µS/cm, 12.88mS/cm
	Range	5.00 Ω·cm~20.00 MΩ·cm
Resistivity	Resolution	0.01 Ω·cm minimum
	Accuracy	±1.0% FS
	Range	0.00ppm~300ppt
TDS	Resolution	0.01mg/L minimum, various with range selection
	Accuracy	±1.0% FS
	Range	0.0~80.0ppt
Salinity	Resolution	0.1ppt
	Accuracy	±2ppt

Model		BEP-M300F
Dissolved	Range	0.00 to 20.00 ppm
	Resolution	0.01ppm
	Accuracy	±0.10ppm
Oxygen	Calibration Points	Air-saturated water or zero point
Concentration	Barometric Compensation	Yes
	Manual Salinity Factor Correction	Yes
	Range	(0.0 to 200.0)%
Saturation	Resolution	0.1%
	Accuracy	±2.0%
	Range	-5 to 110 °C, 23 to 230 °F
Tomporaturo	Unit	°C, °F
Temperature	Resolution	0.1
	Accuracy	±0.2
	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
Measurement	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data manage-	Data Storage	500 results each
ment	GLP Features	Yes
	pH Electrode	BNC(Q9)
Inputs	DO with Temp. Probe	4-pin aviation connector
	Conductivity with Temp. Probe	5-pin aviation connector
Outouto	USB	USB 2.0 flash memory device, PC
Outputs	RS 232	printer
	Backlight	Yes
Diaplay antiona	Auto Shutdown	1~60 min, off
Display options	IP Rating	IP54
	Date and Time	Yes
	Electricity	AC Adapter, 100-240V AC input, DC9V output
General	Dimensions	242×195× 68 mm
	Weight	900g





### BEP-M300F Multi-parameter Analyzer 1 Set

E-301-QC 3 in 1 pH composite electrode 1 Piece

DJS-1VTC Conductivity electrode 1 Piece

DO-958-Q Polarographic DO electrode 1 Piece

Standard pH Buffer Solution (50mL) (pH4.01, 7.00, 10.01) 1 Bottle each

Conductivity standard 1413µS/cm(50mL) 1 Bottle

REX-5 electrode stand 1 Set

Power adapter DC 9V(European plug model, QD24-0902000-A1) 1 Piece

Universal USB cable 1 Piece

Dust cover (Key function version) 1 Piece

Operation quick guide 1 Piece

Instruction manual 1 Piece

### **BEP-M500A**



### 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.

### Conductivity

- 1-5 points calibration with Standard Recognition.
- Settable parameters, including cell constant, reference temperature (5/10/15/18/20/25°C), temperature compensation coefficient and TDS factor.
- Temperature compensation type (none, linear, pure water).

### Features





Color High contrast LCD touchscreen, 7.0 inches.

Support for USB or RS-232 communication.Multiple external devices available PC, printer



### Description

The BEP-M500A Benchtop Multi-parameter Analyzer adopts a multi-purpose measurement

# **General Features**



IP54 waterproof.



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

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Automatic/Manual temperature compensation ensures accurate results.

### lon

- ♦ 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-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+and etc., user-defined method is supported.





Automatic identification standard solution

Fast calibration and more accurate measurement



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



Data Storage1000 sets for each parameter (GLP-compliant).

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



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

Model		BEP-M500A	
Parameters		pH/EC/ISE/Temp. (mV/ORP/pX/Resistivity/TDS/Sal.)	
	Range	-2.000 to 20.000 pH	
	Resolution	0.1, 0.01, 0.001pH	
	Accuracy	±0.002 pH	
	Calibration Points	Up to 6	
рН	Standard Customization	Yes	
	Calibration Reminder	Yes	
	Standard Recognition	NIST, GB, DIN, USA, MERK, JIS buffers	
	Slope Limit	Yes	
	Range	-2000.00 to 2000.00 mV	
	Resolution	0.1, 0.01 mV	
mV/ORP	Accuracy	±0.1 mV or ±0.03% of reading whichever is greater	
	EH ORP Mode	Yes	
	ORP Calibration Points	1 custom point (relative mV)	
	Range	-2.000 to 20.000 pX	
рХ	Resolution	0.1, 0.01, 0.001 pX	
ρx	Accuracy	±0.002 pX	
	Calibration Points	Up to 6	
	Range	1E-9 to 9.999E9	
	Units	mol/L, mmol/L, g/L, mg/L, µg/L, ppm	
ISE	Resolution	Up to 4 significant digits	
	Accuracy	±0.3%	
	Calibration Points	Up to 6	
	Range	0.000 µS/cm to 2000 mS/cm	
	Resolution	0.001 µS/cm minimum,various with range selection	
	Accuracy	±0.5% FS	
Conductivity	Reference Temperature	5, 10, 15, 18, 20, 25 °C	
	Calibration Points	Up to 5	
	Calibration Reminder	Yes	
	Standard Recognition	10µ\$/cm, 84µ\$/cm, 500µ\$/cm, 1413µ\$/cm, 12.88m\$/cm	
	Range	5.00 Ω·cm~100.00 MΩ·cm	
Resistivity	Resolution	0.01 Ω·cm minimum	
	Accuracy	±0.5% FS	
	Range	0.000~1000ppt	
TDS	Resolution	0.001ppm minimum, changed with range	
	Accuracy	±0.5%	

Model		BEP-M500A
	Туре	NaCl
Salinity	Range	0.0~80.0ppt
Summey	Resolution	0.1ppt
	Accuracy	±1ppt
	Range	-10 to 135 °C, 1
	Unit	°C, °F
Temperature	Resolution	0.1
	Accuracy	±0.1
	Reading Mode	Auto Read (Fo
Measurement	Reading Prompts	Reading, Stab
	Temp. Compensation	ATC, MTC
	Data Storage	1000 Groups
Data manage-	GLP Features	Yes
ment	Log Management	Yes
	pH Electrode	BNC(Q9)
Inputs	DO with Temp. Probe	4-pin aviation
	Conductivity with Temp. Probe	5-pin aviation
Outouto	USB	USB 2.0 flash i
Outputs	RS 232	printer, scann
	Backlight	Yes
Display options	Auto Shutdown	1~60 min, off
Display options	IP Rating	IP54
	Date and Time	Yes
	Electricity	AC Adapter, 1
General	Dimensions	220×195×68 n
	Weight	950g
		-



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### M500A

o 135 °C, 14 to 275 °F

Read (Fast, Medium, Slow), Timed, Continuous ing, Stable, Locked MTC

aviation connector

aviation connector

2.0 flash memory device, PC

er, scanner, auto-sampler

dapter, 100-240V AC input, DC24V output 195×68 mm

### BEP-M500A Multi-parameter Analyzer 1 Set

E-301-QC 3 in 1 pH composite electrode 1 Piece

DJS-1VTC Conductivity electrode 1 Piece

Standard pH Buffer Solution (50mL) (pH4.01, 7.00, 10.01) 1 Bottle

Conductivity standard 1413µS/cm(50mL) 1 Bottle

REX-6 electrode stand 1 Set

GC65-240270-F Power adapter DC24V 1 Piece

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

Operation quick guide 1 Piece

Instruction manual 1 Piece

### RLIFT-BEP-M500T

### **Features**



Color High contrast LCD touchscreen.



Data Storage 1000 sets for each parameter.



IP54 waterproof.



Support for USB or RS-232 communication.











# Description

• The RLIFT-BEP-M500T Benchtop Multi-parameter Analyzer a multi-purpose measurement method, which is suitable for the fields of health disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and institutions of higher learning.

### Features

#### **General Features**

- Color High contrast LCD touchscreen, 7.0 inches.
- Intelligent operation system provides features including user management, calibration management, ethod 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 or RS-232 communication.
- Reset feature automatically resumes all settings back to factory default options.
- IP54 waterproof.

#### 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.

#### lon

- 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-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+ and etc., user-defined method is supported.

#### Conductivity

- 1-5 points calibration with Standard Recognition.
- Settable parameters, including cell constant, reference temperature (5/10/15/18/20/25°C), temperature compensation coefficient and TDS factor.
- Temperature compensation type (none, linear, pure water).

#### DO

- Support for air-saturated water or zero oxygen calibration.
- Auto barometric pressure compensation.
- Manual Salinity Factor Correction.
- Selectable pressure unit, including kPa, mbar, Torr, Atm.



Model		RLIFT- <b>BEP-M500T</b>
Parameters	3	pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO Saturation)
	Range	-2.000 to 20.000 pH
	Resolution	0.1, 0.01, 0.001pH
	Accuracy	±0.002 pH
рН	Calibration Points	Up to 6
	Standard Customization	Yes
	Calibration Reminder	Yes
	Standard Recognition	NIST, GB, DIN, USA, MERK, JIS buffers
	Slope Limit	Yes
	Range	-2000.00 to 2000.00 mV
	Resolution	0.1, 0.01 mV
mV/ORP	Accuracy	±0.1 mV or ±0.03% ofreading whichever is greater
	EH ORP Mode	Yes
	ORP Calibration Points	1 custom point (relative mV)
	Range	-2.000 to 20.000 pX
рХ	Resolution	0.1, 0.01, 0.001 pX
	Accuracy	±0.002 pX
	Calibration Points	Up to 6
	Range	1E-9 to 9.999E9
	Units	mol/L, mmol/L, g/L, mg/L, μg/L, ppm
ISE	Resolution	Up to 4 significant digits
	Accuracy	±0.3%
	Calibration Points	Up to 6
	Range	0.000 μS/cm to 2000 mS/cm
	Resolution	0.001 µS/cm minimum,various with range selection
Conduc-	Accuracy	±0.5% FS
tivity	Reference Temperature	5, 10, 15, 18, 20, 25 °C
	Calibration Points	Up to 5
	Calibration Reminder	Yes
	Standard Recognition	10 μS/cm, 84 μS/cm, 500 μS/cm, 1413 μS/cm, 12.88 mS/cm
	Range	5.00 Ω·cm~100.00 MΩ·cm
Resistivity	Resolution	0.01 Ω·cm minimum
	Accuracy	±0.5% FS
	Range	0.000~1000 ppt
TDS	Resolution	0.001 ppm minimum, changed with range
	Accuracy	±0.5%FS
	Туре	NaCl
Salinity	Range	0.0~80.0ppt
	Resolution	0.1ppt
	Accuracy	±lppt

Model		RLIFT-BEP-
Dissolved	Range	0.00 to 99.9
Oxygen	Resolution	0.01 ppm
Concentra-	Accuracy	±0.10ppm, 0
tion –	Calibration Reminder	Yes
Polaro-	Calibration Points	Air-saturate
graphic	Barometric Compensation	Yes
	Manual Salinity Factor Correction	Yes
% Saturation	Range	(0.0 to 600)
-Polaro-	Resolution	0.10%
graphic	Accuracy	±2.0%
	Range	-10 to 135 °C
Tempera-	Unit	°C, °F
ture	Resolution	0.1
	Accuracy	±0.1
Measure-	Reading Mode	Auto Read (
ment	Reading Prompts	Reading, Sto
	Temp. Compensation	ATC, MTC
Data	Data Storage	1000 Groups
manage-	GLP Features	Yes
ment	Log Management	Yes
	pH Electrode	BNC(Q9)
Inputs	DO with Temp. Probe	4-pin aviati
	Conductivity with Temp. Probe	5-pin aviati
	USB	USB 2.0 flasl
Outputs	RS 232	printer, scar
	Backlight	Yes
Display	Auto Shutdown	1~60 min, of
options	IP Rating	IP54
	Date and Time	Yes
	Electricity	AC Adapter
General	Dimensions	220×195×68
	Weight	950g



950g RLIFT-BEP-M E-301-QC 3 in 1 DJS-1VTC Conc DO-958-Q Polo Standard pH Bu Conductivity sto REX-6 electrode stand 1 Set Universal USB cable 1 Piece Instruction manual 1 Piece



-M500T
99 ppm
0.00~50.00ppm ±0.50ppm, 50.0~99.99ppm
ed water or zero point
))%
C, 14 to 275 °F
(Fast, Medium, Slow), Timed, Continuous
able, Locked
S
•
ion connector
ion connector
sh memory device, PC
inner, auto-sampler
ff
r, 100-240V AC input, DC24V output
8 mm
1500T Multi-parameter Analyzer 1 Set
1 pH composite electrode 1 Piece
ductivity electrode 1 Piece
arographic DO electrode 1 Bottle
Buffer Solution (50mL) (pH4.01, 7.00, 10.01) 1 Bottle each
standard 1413µS/cm(50mL) 1 Bottle

- GC65-240270-F Power adapter DC24V 1 Piece
- Dust cover (Touch screen version) 1 Piece
- European standard power cord(3VTJ2) 1 Piece
- Touch pen (Capacitive screen) 1 Piece
- Operation quick guide 1 Piece

### **BEP-M600L**

### **Features**



Color High contrast LCD touchscreen.

Data Storage 1000 sets for each parameter

IP54 waterproof.

Support for USB or RS-232 communication.











# Description

• The BEP-M600L Benchtop Multi-parameter Analyzer adopts a multi-purpose measurement method, which is suitable for the fields of health disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and institutions of higher learning.

# **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 or RS-232 communication.
- Reset feature automatically resumes all settings back to factory default options.
- IP54 waterproof.
- Select from three modules to customize the four channels your way.
- Four channels can be configured in any combination.

### pН

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

### lon

- 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-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+ and etc., user-defined method is supported.

#### Conductivity

- 1-5 points calibration with Standard Recognition.
- Settable parameters, including cell constant, reference temperature (5/10/15/18/20/25°C), temperature compensation coefficient and TDS factor.
- Temperature compensation type (none, linear, pure water).

### DO

- Support for air-saturated water or zero oxygen calibration.
- Auto barometric pressure compensation.
- Manual Salinity Factor Correction.
- Selectable pressure unit, including kPa, mbar, Torr, Atm.



• Support for three modules, namely pH/ISE module, conductivity module and dissolved oxygen module.

Model		BEP-M600L	
Parameters	3	pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO Saturation)	
	Range	-2.000 to 20.000 pH	
	Resolution	0.1, 0.01, 0.001pH	
	Accuracy	±0.002 pH	
рН	Calibration Points	Up to 6	
	Standard Customization	Yes	
	Calibration Reminder	Yes	
	Standard Recognition	NIST, GB, DIN buffers	
	Slope Limit	Yes	
	Range	-2000.00 to 2000.00 mV	
	Resolution	0.1, 0.01 mV	
mV/ORP	Accuracy	±0.03% FS	
	EH ORP Mode	Yes	
	ORP Calibration Points	1~2 custom point (relative mV)	
	Range	-2.000 to 20.000 pX	
рХ	Resolution	0.1, 0.01, 0.001 pX	
	Accuracy	±0.002 pX	
	Calibration Points	Up to 6	
	Range	1.000E-9 to 9.999E9	
	Units	mol/L, mmol/L, g/L, mg/L, μg/L	
ISE	Resolution	Up to 4 significant digits	
	Accuracy	±0.3%	
	Calibration Points	Up to 6	
	Range	0.000 μS/cm to 3000 mS/cm	
	Resolution	0.001 µS/cm minimum, various with range selection	
Conduc-	Accuracy	±0.5% FS	
tivity	Reference Temperature	5, 10, 15, 18, 20, 25 °C	
	Calibration Points	Up to 5	
	Standard Recognition	146.5μS/cm, 1408μS/cm, 12.85mS/cm, 111.3mS/cm	
	Range	5.00 Ω·cm~100.00 MΩ·cm	
Resistivity	Resolution	0.01 Ω·cm minimum	
Resistivity	Accuracy	±0.5% FS	
	Range	0.000 mg/L~1000 g/L	
TDS	Resolution	0.001ppm minimum, changed with range	
	Accuracy	±0.5%FS	
	Туре	NaCl%	
Salinity	Range	(0.00~8.00)%	
Janney	Resolution	0.01%	
	Accuracy	±0.1%	
	Accuracy	-0.170	

		BEP-M600L
Dissolved	Range	0.00 to 99.99 mg/L
Oxygen	Resolution	0.01 mg/L
Concentra-	Accuracy	±0.1 mg/L
tion –	Calibration Reminder	Yes
Polaro-	Calibration Points	Air-saturated water or zero point
graphic	Barometric Compensation	Yes
	Manual Salinity Factor Correction	Yes
% Saturation	Range	(0.0 to 600)%
-Polaro-	Resolution	0.10%
graphic	Accuracy	±2.0%
	Range	-5 to 130 °C
Tempera-	Unit	Ο°
ture	Resolution	0.1
	Accuracy	±0.1
Measure-	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
ment	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data	Data Storage	1000 Groups
manage-	GLP Features	Yes
ment	Log Management	Yes
	pH Electrode	BNC(Q9)
Inputs	DO with Temp. Probe	6-pin Mini-DIN
	Conductivity with Temp. Probe	8-pin Mini-DIN
Outputs	USB	USB 2.0 flash memory device, printer, PC
	RS 232	Yes
Display	Auto Shutdown	1~60 min, off
options	IP Rating	IP54
	Date and Time	Yes
General	Electricity	AC Adapter, 100-240V AC input, DC24V output
	Dimensions	280×280×130 mm
General	Dimonoro	

GM65-240270 AC/DC Power adapter 1 Piece
Touch pen 1 Piece
Dust cover 1 Piece
Mini USB communication cable 1 Piece
European standard power cord(3VTJ2) 1 Piece
Ground wire(DC401) 1 Piece
Instruction manual 1 Piece
Operation guide 1 Piece



REX-3 Electrode stand 1 Set

### BEP-M900 BEP-M901 BEP-M902 BEP-M903 BEP-M904





### **Measurement Parameters**

### BEP-M900:

pH, mV, relative mV, ion concentration, conductivity, TDS, salinity, resistivity, DO, temperature

BEP-M901: pH, mV, conductivity, TDS, temperature

**BEP-M902:** pH, mV, relative mV, conductivity, TDS, salinity, resistivity, temperature

BEP-M903: pH, mV, relative mV, DO, temperature

BEP-M904: Conductivity, TDS, salinity, resistivity, DO, temperature

### **Features**

### pH:

Multiparameter water quality meter is equipped with a 6.5 inches backlit LCD display

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 adjusting 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

Direction concentration readout simplifies the measurement process

Automatic electrode diagnosis shows the calibration points and slopes

Selectable concentration units (ppm, mg/L, mol/L, mmol/L) and ionic valency

# **General Features**





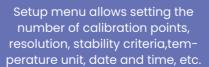
Auto-Read function senses and locks the measurement endpoint





Calibration due alarm prompts the user to calibrate the meter regularly

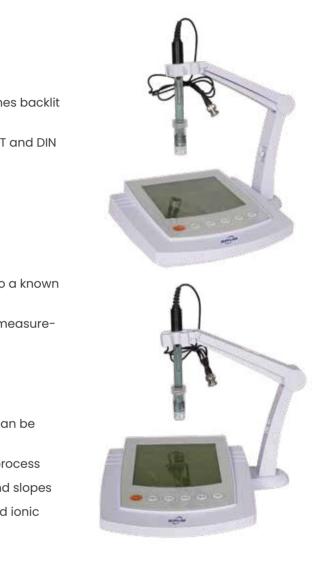






Reset function automatically resumes all settings back to the factory defaults









Expanded memory stores or recalls up to 500 data sets USB communication interface for data transfer and timed interval readings

### Conductivity/TDS/Salinity/Resistivity:

1 to 5 points calibration with automatic recognition for conductivity standards

Selectable cell constant, reference temperature, TDS factor, linear and pure water compensations, seawater, and practical salinity measurement modes

Automatic electrode diagnosis shows the calibration points and factors







# **Ordering Information**

#### BEP-M900:

pH/conductivity/dissolved oxygen electrodes, temperature probe, pH buffer sachets, conductivity standard solutions, DO electrolyte solution, membrane cap, electrode holder, USB cable, and power adapter

### BEP-M901/902:

pH/conductivity electrodes, temperature probe, pH buffer sachets, conductivity standard solutions, electrode holder, USB cable, and power adapter

#### BEP-M903:

pH/dissolved oxygen electrodes, temperature probe, pH buffer sachets, DO

electrolyte solution, membrane cap, electrode holder, USB cable, and power adapter

### BEP-M904:

Conductivity/dissolved oxygen electrodes, temperature probe, conductivity

standard solutions, DO electrolyte solution, membrane cap, electrode holder, USB cable

and power adapter

### **Dissolved Oxygen:**

1 or 2 points calibration using the air-saturated water or zero oxygen solution

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Salinity and barometric pressure compensations















Model		BEP- M900	BEP- M901	BEP- M902	BEP- M903	BEP- M904
рН						
Range	-2.000~20.000pH	•	٠	•	•	-
Resolution	0.001, 0.01, 0.1pH, selectable	•	•	•	•	-
Accuracy	±0.002pH	•	•	•	•	-
Calibration Points	1 to 5 points	٠	٠	٠	•	-
pH Buffer Options	USA, NIST, DIN, 2 custom buffers	٠	•	٠	•	-
ORP						
Range	±1999.9mV	•	٠	•	•	-
Resolution	0.1, 1mV, selectable	٠		•	•	-
Accuracy	±0.2mV	٠	٠	٠	٠	-
Calibration Points	1 point	•	-	•	•	-
lon						
Range	0.001~19999 (depending on the range of ISE)	٠	-	-	-	-
Resolution	0.001, 0.01, 0.1, 1	•	-	-	-	-
Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	٠	-	-	-	-
Measurement Units	ppm, mg/L, mol/L, mmol/L	٠	-	-	-	-
Calibration Points	2 to 5 points (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000)	•	-	-	-	-
Conductivity						
Range	0.01~20.00, 200.0, 2000µS/cm, 20.00, 200.0mS/cm	•	•	•	_	•
Resolution	0.001,0.01,0.1,1	٠	٠	٠	-	•
Accuracy	±0.5% F.S.	٠	٠	٠	-	•
Calibration Points	1 to 5 points	٠	٠	٠	-	•
Calibration Solutions	10µS/cm, 84µS/cm, 1413µS/cm, 12.88mS/cm,	• • •		_		
	111.8mS/cm	•	•	•		•
Temperature Coefficient	Linear (0.0~10.0%/°C), pure water	٠	٠	٠	-	•
Reference Temperature	20/25°c	٠	٠	٠	-	٠
Cell Constant	K=0.1, 1, 10 or custom	٠	٠		-	•

# Specifications

Model		BEP- M900	BEP- M901	BEP- M902	BEP- M903	BEP- M904
TDS						
Range	0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt	٠	٠	•	-	•
Resolution	0.01,0.1,1	•	•	•	-	•
Accuracy	±1% F.S.	٠	•	٠	-	•
TDS Factor	0.1~1.0 (default 0.5)	•	•	•	-	•
Salinity						
Range	0.00~42.00psu, 0.00~80.00ppt	•	-	•	-	•
Resolution	0.01	•	-	•	-	•
Accuracy	±1% F.S.	٠	-	٠	-	•
Resistivity						
Range	0.00~20.00ΜΩ	•	-	•	-	•
Resolution	0.01	٠	-	٠	-	•
Accuracy	±1% F.S.	٠	-	•	-	•
DO						
Range	0.00~20.00mg/L, 0.0~200.0% saturation	•	-	-	•	•
Resolution	0.01mg/L, 0.1%	٠	-	-	•	•
Accuracy	±0.2mg/L, ±2.0%	٠	-	-	•	•
Calibration Points	lor 2 points	٠	-	-	٠	•
Barometric Pressure	60.0~112.5kPa/450~850mmHg, manual	•	-	_	•	•
Correction	00 500 li					
Salinity Correction	0.0~50.0g/L, manual	•	-	-	•	•
General Spec.						
Temperature Compen- sation	0~100°C/32~212°F, manual or automatic	•	•	•	•	•
Memory	500 data sets, USB communication interface		٠	٠	•	•
Power Requirements	DC5V power adapter	•	٠	•	•	•
Dimensions and Weight	210(L)×188(W)x60(H)mm,1.5kg	٠	٠	٠	•	٠

ROYLAB

### **BEP-M310A**



# pH

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

### Conductivity

- ◆ 1-3 points calibration with Standard Recognition.
- Settable parameters, including cell constant, temperature compensation coefficient, and TDS factor.
- Temperature compensation type (none, linear, pure water).

### Features





LCD display screen, 3.5 inches.

Support for USB communi- Tilting stand cation.Multiple external devices available PC, printer



# Description

The BEP-M310A Portable Multi-parameter Analyzer adopts a multi-purpose measurement method, which is suitable for the fields of health disease control, environmental protection,

# **General Features**



IP65 waterproof.

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

# lon

- Selectable measurement unit, including  $\mu$ g/L, mg/L, g/L, mmol/L, pX, ppm, etc.
- mode and GRAN mode.



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

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

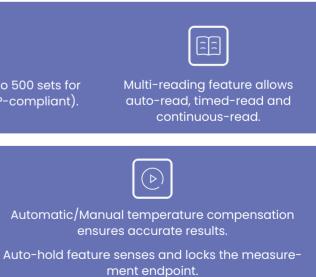






Support better reading and operation

Wristbands Safety hold



Model		BEP-M310A
Parameters		pH/EC/ISE/Temp. (mV/ORP/pX/Resistivity/TDS/Sal.)
	Range	-2.00 to 20.00 pH
	Resolution	0.1, 0.01 pH
	Accuracy	±0.01 pH
рН	Calibration Points	Up to 5
	Standard Customization	Yes
	Standard Recognition	NIST, GB and DIN buffers
	Slope Limit	Yes
	Range	-2000.0 to 2000.0 mV
mV	Resolution	0.1
	Accuracy	±0.3 mV or ±0.1%
рХ	Range	-2.00 to 20.00
	Resolution	0.1, 0.01 pX
	Accuracy	±0.01 pX
	Calibration Points	Up to 5
	Range	1E-9 to 9.999E9
	Units	mol/L, mmol/L, g/L, mg/L, µg/L
ISE	Resolution	Up to 4 significant digits
	Accuracy	±0.5%
	Calibration Points	Up to 5
	Range	0.000 µS/cm to 500 mS/cm
	Resolution	0.001 µS/cm minimum,various with range selection
Conductivity	Accuracy	±1.0% FS
Conductivity	Reference Temperature	20, 25 °C
	Calibration Points	Up to 3
	Standard Recognition	84µ\$/cm, 1413µ\$/cm, 12.88m\$/cm
	Range	5.00 Ω·cm~20.00 MΩ·cm
Desistivity	Resolution	0.01 Ω·cm minimum
Resistivity	Accuracy	±1.0% FS
	Range	0.00 ppm~300 ppt
75.0	Resolution	0.01ppm minimum, various with range selection
TDS	Accuracy	±1.0%FS
	Range	0.0~80.0 ppt
Salinity	Resolution	0.1ppt
Salinity	Accuracy	±2ppt

Model		BEP-M
	Range	-5 to 11
Tanana anatuma	Unit	°C, °F
Temperature	Resolution	0.1
	Relative Accuracy	±0.2
	Reading Mode	Auto R
Measurement	Reading Prompts	Readir
	Temp. Compensation	ATC, M
Data manage-	Data Storage	500 re
ment	GLP Features	Yes
Inputs	pH Electrode	BNC(Q
Inputs	Conductivity with Temp. Probe	5-pin d
Outputs	USB	PC, pri
	Backlight	Yes
Disalant antions	Auto Shutdown	300, 60
Display options	IP Rating	IP65
	Date and Time	Yes
	Electricity	Recha
General	Lieotholty	input, I
	Dimensions	80×25
	Weight	400g

### BEP-M310A Multi-parameter Analyzer 1 Set

MicroUSB to DB25 printing cable 1 Piece Silicone rubber case (Installed on the host) 1 Piece Wristband assembly(Small) 1 Piece Carrying case(Large) 1 Piece Operation quick guide 1 Piece Instruction manual 1 Piece







### M310A

110 °C, 23 to 230 °F

Read (Fast, Medium, Slow), Timed, Continuous ling, Stable, Locked MTC results each

Q9) n aviation connector rinter

600, 1200, 1800, 3600 sec., off

argeable Lithium battery, AC Adapter, 100-240V AC ;, DC5V output 55×35 mm

E-301-QC 3 in 1 pH composite electrode 1 Piece

- DJS-1VTC Conductivity electrode 1P iece
- Standard pH Buffer Solution (50mL) (pH4.01, 7.00, 10.01) 1 Bottle each
- Conductivity standards 1413µS/cm(50mL) 1 Bottle
- Power adapter DC 5V 2A(European plug model, GAT-0502000) 1 Piece
- Electrode holder 2 Pieces
- MicroUSB cable 1 Piece



### **BEP-M310F**







The BEP-M310F Portable Multi-parameter Analyzer adopts a multi-purpose measurement method, which is suitable for the fields of health disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and institutions of higher learning.

### Features

- LCD display screen, 3.5 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 capacity of up to 500 sets for each parameter (GLP-compliant).
- Support for USB communication.
- Auto-power off feature effectively extends the battery service life.
- Reset feature automatically resumes all settings back to factory default options.
- IP65 waterproof.

### Features

### ♦ pH

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

### ♦ lon

1-5 points calibration. Selectable measurement unit, including  $\mu$ g/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-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+ and etc., user-defined method is supported.

### Conductivity

1-3 points calibration with Standard Recognition. Settable parameters, including cell constant, temperature compensation coefficient, and TDS factor. Temperature compensation type (none, linear, pure water).

### DO

Support for air-saturated water or zero oxygen calibration. Auto barometric pressure compensation Manual Salinity Factor Correction Selectable pressure unit, including kPa, mbar, Torr, Atm.







LCD display screen. Data capacity of up to 500 sets for each parameter. Support for USB communication. IP65 waterproof.

#### 31





Model		BEP-M310F
Parameters		pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO
		Saturation)
	Range	-2.00 to 20.00pH
	Resolution	0.1, 0.01 рН
	Accuracy	±0.01 pH
рН	Calibration Points	Up to 5
	Standard Customization	Yes
	Standard Recognition	NIST, GB and DIN buffers
	Slope Limit	Yes
	Range	-2000.0 to 2000.0 mV
mV	Resolution	0.1
	Accuracy	±0.3 mV or ±0.1%
	Range	-2.00 to 20.00
рХ	Resolution	0.1, 0.01 pX
	Accuracy	±0.01 pX
	Calibration Points	Up to 5
	Range	1E-9 to 9.999E9
	Units	mol/L, mmol/L, g/L, mg/L, µg/L
ISE	Resolution	Up to 4 significant digits
	Accuracy	±0.5%
	Calibration Points	Up to 5
	Range	0.000 μS/cm to 500 mS/cm
	Resolution	0.001 µS/cm minimum,various with range selection
Conductivity	Accuracy	±1.0% FS
,	Reference Temperature	20, 25 °C
	Calibration Points	Up to 3
	Standard Recognition	84µS/cm, 1413µS/cm, 12.88mS/cm
	Range	5.00 Ω·cm~20.00 MΩ·cm
Resistivity	Resolution	0.01 Ω·cm minimum
	Accuracy	±1.0% FS
	Range	0.00 ppm~300 ppt
TDS	Resolution	0.01ppm minimum, various with range selection
	Accuracy	±1.0%FS

### BEP-M310F Multi-parameter Analyzer 1 Set

Electrode holder 2 Pieces MicroUSB cable 1 Piece MicroUSB to DB25 printing cable 1 Piece Silicone rubber case (Installed on the host) 1 Piece Wristband assembly(Small) 1 Piece Carrying case(Large) 1 Piece Operation quick guide 1 Piece Instruction manual 1 Piece

E-301-QC 3 in 1 pH composite electrode 1 Piece DJS-1VTC Conductivity electrode 1 Piece DO-958-Q Polarographic DO electrode 1 Piece Standard pH Buffer Solution (50mL) (pH4.01, 7.00, 10.01) 1 Bottle each Conductivity standards 1413µS/cm(50mL) 1 Bottle Power adapter DC 5V 2A(European plug model, GAT-0502000) 1 Piece

# Specifications

Model		BEP-M310F
	Range	0.0~80.0 ppt
Salinity	Resolution	0.1ppt
	Accuracy	±2ppt
	Range	0.00 to 50.00ppm
Dissolved	Resolution	0.01ppm
Oxygen Con-	Accuracy	±0.lppm
centration	Calibration Points	Air-saturated water or zero point
centration	Barometric Compensation	Yes
	Manual Salinity Factor Correction	Yes
	Range	(0.0 to 300.0)%
Saturation	Resolution	0.1%
	Accuracy	±10.0%
Temperature	Range	-5 to 110 °C, 23 to 230 °F
	Unit	°C, °F
remperature	Resolution	0.1
	Relative Accuracy	±0.2
	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
Measurement	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data manage-	Data Storage	500 results each
ment	GLP Features	Yes
	pH Electrode	BNC(Q9)
Inputs	DO with Temp. Probe	4-pin aviation connector
	Conductivity with Temp. Probe	5-pin aviation connector
Outputs	USB	PC, printer
	Backlight	Yes
Display options	Auto Shutdown	300, 600, 1200, 1800, 3600 sec., off
Display options	IP Rating	IP65
	Date and Time	Yes
		Rechargeable Lithium battery, AC Adapter, 100-240V AC
General	Electricity	input, DC5V output
General	Dimensions	80×255×35 mm
	Weight	400g







### **BEP-M310T**





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	Constra Constra Constra	

The BEP-M310T Portable Multi-parameter Analyzer adopts a multi-purpose measurement method, which is suitable for the fields of health disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and institutions of higher learning.

### Features

- 1.LCD display screen, 4.3 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 capacity of up to 500 sets for each parameter (GLP-compliant).
- Support for USB communication.
- Auto-power off feature effectively extends the battery service life.
- Reset feature automatically resumes all settings back to factory default options.
- IP65 waterproof.

### Features

### • pH

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

#### Ion

1-5 points calibration. Selectable measurement unit, including  $\mu g/L$ , 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-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+ and etc., user-defined method is supported.

### Conductivity

1-3 points calibration with Standard Recognition. Settable parameters, including cell constant, temperature compensation coefficient, and TDS factor. Temperature compensation type (none, linear, pure water).

#### • DO

Support for air-saturated water or zero oxygen calibration. Auto barometric pressure compensation Manual Salinity Factor Correction Selectable pressure unit, including kPa, mbar, Torr, Atm.







LCD display screen. Data capacity of up to 500 sets for each parameter. Support for USB communication. IP65 waterproof.





Model		BEP-M310T
Parameters		pH/EC/ISE/DO/Temp. (mV/pX/Resistivity/TDS/Sal./DO
T di di liteters		Saturation)
	Range	-2.00 to 20.00pH
	Resolution	0.1, 0.01 pH
	Accuracy	±0.01 pH
рН	Calibration Points	Up to 5
	Standard Customization	Yes
	Calibration Reminder	Yes
	Standard Recognition	NIST, GB and DIN buffers
	Slope Limit	Yes
	Range	-2000.0 to 2000.0 mV
mV	Resolution	0.1 mV
	Accuracy	±0.3 mV or ±0.1%
	Range	-2.00 to 20.00 pX
рХ	Resolution	0.1, 0.01 pX
1	Accuracy	±0.01 pX(±0.01 pX)
	Calibration Points	Up to 5
	Range	1E-9 to 9.999E9
	Units	mol/L, mmol/L, g/L, mg/L, μg/L
ISE	Resolution	Up to 4 significant digits
	Accuracy	±0.5%
	Calibration Points	Up to 5
	Range	0.000 µS/cm to 1000 mS/cm
	Resolution	0.001 µS/cm minimum,various with range selection
Conductivity	Accuracy	±1.0% FS
,	Reference Temperature	20, 25 °C
	Calibration Points	Up to 3
	Standard Recognition	84µS/cm, 1413µS/cm, 12.88mS/cm
	Range	5.00 Ω ·cm~20.00 MΩ ·cm
Resistivity	Resolution	0.01Ω ·cm minimum,
	Accuracy	±1.0% FS
	Range	0.00ppm~300ppt
TDS	Resolution	0.01mg/L minimum, 3 significant digits
	Accuracy	±1.0%

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(Large) 1 Piece Operation quick guide 1 Piece Instruction manual 1 Piece

E-301-QC 3 in 1 pH composite electrode 1 Piece DJS-1VTC Conductivity electrode 1 Piece DO-958-Q Polarographic DO electrode 1 Piece Standard pH Buffer Solution (50mL) (pH4.01, 7.00, 10.01) 1 Bottle each Conductivity standards 1413µS/cm(50mL) 1 Bottle Power adapter DC 5V 2A(European plug model, GAT-0502000) 1 Piece Electrode holder 2 Pieces

Model		BEP-M310T
	Range	0.0~80.0ppt
Salinity	Resolution	0.1ppt
	Accuracy	±2ppt
	Sensor Type	Polarographic
	Range	0.00 to 50.00 ppm
Dissolved	Resolution	0.01ppm
Oxygen Con-	Accuracy	±0.1ppm
centration	Calibration Points	Air-saturated water or zero point
contration	Barometric Compensation	Yes
	Manual Salinity Factor Correction	Yes
	Range	(0.0 to 300.0)%
Saturation	Resolution	0.10%
	Accuracy	±2.0%
	Range	-5 to 110 °C, 23.0 to 230 °F
Temperature	Unit	°C, °F
remperature	Resolution	0.1
	Relative Accuracy	±0.2
	Reading Mode	Auto-Read (Fast, Medium, Slow), Timed, Continuous
Measurement	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data manage-	Data Storage	1000 Groups
ment	GLP Features	Yes
	pH Electrode	BNC(Q9)
Inputs	DO with Temp. Probe	4-pin aviation connector
	Conductivity with Temp. Probe	5-pin aviation connector
Outputs	USB	PC, printer
	Backlight	Yes
Display options	Auto Shutdown	300, 600, 1200, 1800, 3600sec., off
Display options	IP Rating	IP65
	Date and Time	Yes
	Floatricity	Rechargeable Lithium battery, AC Adapter, 100-240V
General	Electricity	AC input, DC5V output
Concrui	Dimensions	90 x 255 x 40 mm
	Weight	500g







pН

Conductivity

factor.

### **BEP-M510A**



# 





Color High contrast LCD touchscreen, 4.3 inches. Support for USB communi- Tilting stand cation.Multiple external devices available PC, printer

### Description

The BEP-M510A Portable Multi-parameter Analyzer adopts a multi-purpose measurement method, which is suitable for the fields of health disease control, environmental protection,

## **General Features**

IP65 waterproof.



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



Data Storage1000 sets for each parameter (GLP-compliant).

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

### lon

◆ 1-8 points calibration with Standard Recognition.

• User-defined pH buffer or buffer group is supported.

Selectable pH buffer groups, including USA, NIST, DIN, GB, MERK, JIS.

• Automatic electrode diagnosis with pH slope and offset display.

◆ 1-5 points calibration automatically recognizes the standard solutions. • Settable parameters, including cell constant, reference temperature (5/10/15/18/20/25°C), temperature compensation coefficient and TDS

Temperature compensation type (none, linear, pure water).







Support better reading and operation

Wristbands Safety hold



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.



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

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

Model		BEP-M510A
Parameters		pH/EC/ISE/Temp. (mV/ORP/pX/Resistivity/TDS/Sal.)
	Range	-2.000 to 20.000 pH
	Resolution	0.1, 0.01, 0.001pH
	Accuracy	±0.002 pH
mll	Calibration Points	Up to 8
рН	Standard Customization	Yes
	Calibration Reminder	Yes
	Standard Recognition	USA, NIST, MERK, JIS, GB and DIN buffers
	Slope Limit	Yes
	Range	-2000.00 to 2000.00 mV
	Resolution	0.1, 0.01 mV
mV/ORP	Accuracy	±0.1 mV or ±0.03%
	EH ORP Mode	Yes
	<b>ORP</b> Calibration Points	l custom point (relative mV)
	Range	-2.000 to 20.000 pX
рХ	Resolution	0.1, 0.01, 0.001 pX
px	Accuracy	±0.002 pX
	Calibration Points	Up to 6
	Range	1E-9 to 9.999E9
	Units	mol/L, mmol/L, g/L, mg/L, µg/L
ISE	Resolution	Up to 4 significant digits
	Accuracy	±0.3%
	Calibration Points	Up to 8
	Range	0.000 µS/cm to 3000 mS/cm
	Resolution	0.001 µS/cm minimum,various with range selection
	Accuracy	±0.5% FS
Conductivity	Reference Temperature	5, 10, 15, 18, 20, 25 °C
Conductivity	Calibration Points	Up to 5
	Calibration Reminder	Yes
	Standard Recognition	10µ\$/cm, 84µ\$/cm, 500µ\$/cm, 1413µ\$/cm, 12.88m\$/cm
	Range	5.00 Ω·cm~100.00 MΩ·cm
Resistivity	Resolution	0.01 Ω·cm minimum
	Accuracy	±0.5% FS
	Range	0.000ppm~1000ppt
TDS	Resolution	0.001ppm minimum, changed with range
	Accuracy	±0.5%FS

Model		BEP-M510A
	Range	0.0~80.0ppt
Salinity	Resolution	0.1ppt
	Accuracy	±lppt
	Range	-10 to 135 °C, 14 to 275 °F
Tomporaturo	Unit	°C, °F
Temperature	Resolution	0.1
	Relative Accuracy	±0.1
	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
Measurement	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data manage-	Data Storage	1000 Groups
ment	GLP Features	Yes
	pH Electrode	BNC(Q9)
Inputs	DO with Temp. Probe	4-pin aviation connector
	Conductivity with Temp. Probe	5-pin aviation connector
Outputs	USB	USB 2.0 flash memory device, PC, scanner
	Backlight	Yes
Diaplay aptions	Auto Shutdown	300, 600, 1200, 1800, 3600 sec., off
Display options	IP Rating	IP65
	Date and Time	Yes
		Rechargeable Lithium battery, AC Adapter, 100-240V A
	Electricity	input, DC5V output
General	Dimensions	90×255×40 mm
	Weight	500g
EP-M510A Multi-po	arameter Analyzer 1 Set	
TG adapter cable (Mid	croUSB connector) 1 Piece	E-301-QC 3 in 1 pH composite electrode 1 Piece
ouch pen (Capacitive	screen) l Piece	DJS-1VTC Conductivity electrode 1 Piece

Touch pen (Capacitive screen) | Piece Silicone rubber case (Installed on the host) | Piece Wristband assembly(Large) 1 Piece Carrying case(Large) 1 Piece Operation quick guide 1 Piece Instruction manual 1 Piece





Standard pH Buffer Solution (50mL) (pH4.01, 7.00, 10.01) 1 Bottle each

Conductivity standard 1413µS/cm(50mL) 1 Bottle

Power adapter DC 5V 2A(European plug model, GAT-0502000) 1 Piece

Electrode holder 2 Pieces

MicroUSB cable 1 Piece



### **BEP-M510T**







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The BEP-M510T Portable Multi-parameter Analyzer adopts a multi-purpose measurement method, which is suitable for the fields of health disease control, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and institutions of higher learning.

### **Features**

- Color High contrast LCD touchscreen, 4.3 inches.
- Intelligent operation system provides features including user management, calibration management, electrode management, method management, data management, Log Management and etc.
- 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 1000 sets for each parameter (GLP-compliant).
- Data analysis feature helps user review, compare and recalculate results.
- Support for USB communication.
- Auto-power off feature effectively extends the battery service life.
- Reset feature automatically resumes all settings back to factory default options.
- IP65 waterproof.

### **Features**

### • 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

1-6 points calibration.

Selectable measurement unit, including  $\mu g/L$ , 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-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+ and etc., user-defined method is supported.

### • Conductivity

1-5 points calibration automatically recognizes the standard solutions. Settable parameters, including cell constant, reference temperature (5/10/15/18/20/25°C), temperature compensation coefficient and TDS factor.

Temperature compensation type (none, linear, pure water).

#### • DO

Support for air-saturated water or zero oxygen calibration. Auto barometric pressure compensation Manual Salinity Factor Correction Selectable pressure unit, including kPa, mbar, Torr, Atm.





Color High contrast LCD touchscreen. Data Storage 1000 sets for each parameter. Support for USB communication. IP65 waterproof.







Model		BEP-M510T
Parameters		pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO Saturation)
	Range	-2.000 to 20.000 pH
	Resolution	0.1, 0.01, 0.001pH
	Accuracy	±0.002 pH
рН	Calibration Points	Up to 8
	Standard Customization	Yes
	Calibration Reminder	Yes
	Standard Recognition	USA, NIST, MERK, JIS, GB and DIN buffers
	Slope Limit	Yes
	Range	-2000.00 to 2000.00 mV
	Resolution	0.1, 0.01 mV
mV/ORP	Accuracy	±0.1 mV or ±0.03%
	EH ORP Mode	Yes
	ORP Calibration Points	1 custom point (relative mV)
	Range	-2.000 to 20.000 pX
nΥ	Resolution	0.1, 0.01, 0.001 pX
рХ	Accuracy	±0.002 pX
	Calibration Points	Up to 6
	Range	1E-9 to 9.999E9
	Units	mol/L, mmol/L, g/L, mg/L, µg/L
ISE	Resolution	Up to 4 significant digits
ISE	Accuracy	±0.3%
	Calibration Points	Up to 8
	Range	0.000 µS/cm to 3000 mS/cm
	Resolution	0.001 µS/cm minimum,various with range selection
Conductivity	Accuracy	±0.5% FS
	Reference Temperature	5, 10, 15, 18, 20, 25 °C
	Calibration Points	Up to 5
	Calibration Reminder	Yes
	Standard Recognition	10µ\$/cm, 84µ\$/cm, 500µ\$/cm, 1413µ\$/cm, 12.88m\$/cm
	Range	5.00 Ω·cm~100.00 MΩ·cm
Resistivity	Resolution	0.01 Ω·cm minimum
	Accuracy	±0.5% FS
	Range	0.000ppm~1000ppt
TDS	Resolution	0.001ppm minimum, changed with range
	Accuracy	±0.5%FS

### BEP-M510T Multi-parameter Analyzer 1 Set

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(Large) 1 Piece Operation quick guide 1 Piece

Instruction manual 1 Piece E-301-QC 3 in 1 pH composite electrode 1 Piece DJS-1VTC Conductivity electrode 1 Piece DO-958-Q Polarographic DO electrode 1 Piece Standard pH Buffer Solution (50mL) (pH4.01, 7.00, 10.01) 1 Bottle each Conductivity standard 1413µS/cm(50mL) 1 Bottle Power adapter DC 5V 2A(European plug model, GAT-0502000) 1 Piece Electrode holder 2 Pieces

Model		BEP-M510T	
	Range	0.0~80.0ppt	
Salinity	Resolution	0.1ppt	
	Accuracy	±lppt	
	Sensor Type	Polarographic	
	Range	0.00 to 99.99 ppm	
	Resolution	0.01ppm	
Dissolved	Accuracy	±0.1ppm (0.00 to 50.00 ppm);±0.5ppm (50.00 to 99.99 ppm)	
Oxygen Con-	Calibration Reminder	Yes	
centration	Calibration Points	Air-saturated water or zero point	
	Barometric Compensation	Yes	
	Manual Salinity Factor Correction	Yes	
	Range	(0.0 to 600.0)%	
Saturation	Resolution	0.10%	
	Accuracy	±10.0%	
	Range	-10 to 135 °C, 14 to 275 °F	
T	Unit	°C, °F	
Temperature	Resolution	0.1	
	Relative Accuracy	±0.1	
	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous	
Measurement	Reading Prompts	Reading, Stable, Locked	
	Temp. Compensation	ATC, MTC	
Data manage-	Data Storage	1000 Groups	
ment	GLP Features	Yes	
	pH Electrode	BNC(Q9)	
Inputs	DO with Temp. Probe	4-pin aviation connector	
	Conductivity with Temp. Probe	5-pin aviation connector	
Outputs	USB	USB 2.0 flash memory device, PC, scanner	
	Backlight	Yes	
Disalant	Auto Shutdown	300, 600, 1200, 1800, 3600 sec., off	
Display options	IP Rating	IP65	
	Date and Time	Yes	
		Rechargeable Lithium battery, AC Adapter, 100-240V AC	
	Electricity	input, DC5V output	
General	Dimensions	90×255×40 mm	
	Weight	500g	







### BEP-M900P BEP-M901P BEP-M902P BEP-M903P BEP-M904P



### **Measurement Parameters**

BEP-M900P: pH, mV, relative mV, ion concentration, conductivity, TDS,salinity, resistivity, DO, temperature

BEP-M901P: pH, mV, conductivity, TDS, temperature

BEP-M902P: pH, mV, relative mV, conductivity, TDS, salinity, resistivity, temperature

BEP-M903P: pH, mV, relative mV, DO, temperature

BEP-M904P: Conductivity, TDS, salinity, resistivity, DO, temperature

ecalls





Calibration due alarm prompts user to calibrate the meter regularly



Multi-mode power scheme (batteries, power adapter and USB port) ensures that using

ded memory stores or I	i
up to 500 data sets	



Setup menu allows setting the number of calibration points, resolution, stability criteria, temperature unit, date and time, etc.

|--|

USB communication interface is easy to transfer data to PC



Reset function automatically resumes all settings back to the factory defaults

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

Expan



## Features

### pH:

Multi parameter water quality meter is equipped with a 3.5 inches backlit LCD display

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 adjusting the displayed value to a known standard

Relative and absolute millivolt modes ensure the reliable ORP measurements

### **Dissolved Oxygen:**

1 or 2 points calibration using the air-saturated water or zero oxygen solution

Salinity and barometric pressure compensations eliminate the measurement error

### 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

Selectable concentration units (ppm, mg/L, mol/L, mmol/L) and ionic valency

### Conductivity/TDS/Salinity/Resistivity:

1 to 5 points calibration with automatic recognition for conductivity standards

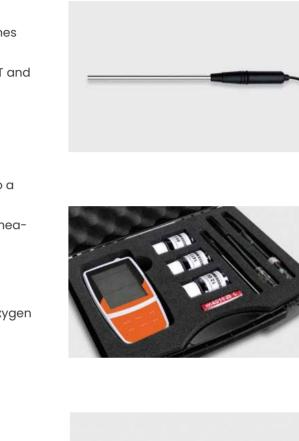
Selectable cell constant, reference temperature, TDS factor, linear and pure water

compensations, seawater and practical salinity measurement modes

Automatic electrode diagnosis shows the calibration points and factors

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Model		BEP- M900P	BEP- M901P	BEP- M902P	BEP- M903P	BEP- M904P
рН						
Range	-2.000-20.000pH	•	•	•	•	-
Resolution	0001,0.01,0.1pH, selectable	٠	•	•	٠	-
Accuracy	0.002pH	٠	•	٠	٠	-
Calibration Points	1 to 5 points	•	•	٠	•	-
pHBuffer Options	USA, NIST, DIN, 2 custom buffers	•	•	•	•	-
ORP						
Range	±1999.9mV	•	•	•	•	-
Resolution	0.1, 1mV, selectable	•	•	•	•	-
Accuracy	±0.2mV	٠	٠	٠	•	-
Calibration Points	1 point	٠	-	٠	•	-
lon						
Range	0.001~19999 (depending on the range of	•	-	-	-	-
kunge	ISE)	٠	-	-	-	-
Resolution	0.001, 0.01, 0.1, 1	٠	-	-	-	-
Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	٠	-	-	-	-
Measurement Units	ppm, mg/L, mol/L, mmol/L	٠	-	-	-	-
Calibration Paints	2 to 5 points (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000)	٠	-	-	-	-
Conductivity						
Range	0.01~20.00, 200.0, 2000µS/cm, 20.00, 200.0mS/cm	•	•	•	-	•
Resolution	0001,0.01,0.1,1	٠	٠	٠	-	•
Accuracy	±0.5% F.S.	٠	٠	٠	-	•
Calibration Paints	1 to 5 points	٠	٠	٠	_	•
Calibration Solutions	10µ\$/cm, 84µ\$/cm, 1413µ\$/cm,				_	
Cumpration solutions	12.88mS/cm, 111.8mS/cm	•	•	•	_	•
Temperature Coefficient	Linear(0.0-10.0%/°C).pure water	٠	٠	•	-	•
Reference Temperature	20/25°C	٠	٠	•	-	•
Cell Constant	K=0.1, 1, 10 or custom	٠	٠	٠	-	•

# Specifications

TDS     Range   0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt   ●	•
Resolution   001,0.1,1   ●	•
Accuracy ±1% F.S. ● ● ● -   TDS Factor 0.1~1.0 (default 0.5) ● ● ● -   Salinity - - - - -   Range 0.00~42.00psu, 0.00~80.00ppt ● - ● - -   Resolution 0.01 ● - ● - - -   Accuracy ±1% F.S. ● - ● - - -   Resistivity - 0.00~20.00MΩ ● - ● - -	•
TDS Factor 0.1~1.0 (default 0.5) ●	•
Salinity   Range 0.00~42.00psu, 0.00~80.00ppt -<	•
Range 0.00~42.00psu, 0.00~80.00ppt • - • -   Resolution 0.01 • - • -   Accuracy ±1% F.S. • - • -   Resistivity • - • - •   Range 0.00~20.00MΩ • - • -	•
Resolution   0.01   •   -   •   -     Accuracy   ±1% F.S.   •   -   •   -   •   -     Resistivity        -   •   -     Range   0.00~20.00MΩ   •   -   •   -   •   -	•
Accuracy   ±1% F.S.   •   -   •   -     Resistivity   •   -   •   -   •   -     Range   0.00~20.00MΩ   •   -   •   -   •   -	-
Resistivity   •   -   •   -     Range   0.00~20.00MΩ   •   -   •   -	•
Range 0.00~20.00MΩ • - • -	•
Pesolution 0.01	•
0.01	•
Accuracy ±1% F.S.	•
DO	
Range 0.00~20.00mg/L, 0.0~200.0% saturation • •	•
Resolution 001mg/L,0.1% • •	•
Accuracy ±0.2mg/L, ±2.0% • •	•
Calibration Points 1 or 2 points • •	٠
Barometric Pressure	
60.0~112.5kPa/450~850mmHg, manual   -   -   -   •	•
Salinity Correction 0.0~50.0g/L, manual • •	•
General Spec.	
Temperature Compen-	
o~100°C/32~212°F, manual or automatic	•
Memory 500 data sets, USB communication interface • • •	•
Power Requirements 3× 1.5V AA batteries or DC5V power adapter • • •	
Dimensions and Weight 170(L)×85 (W)×30(H)mm, 300g	•

ROYLAB