



## CONDUCTIVITY METER

# CONDUCTIVITY METER BFU1Z1 BFU1Z2 BFU1Z3

PEN TYPE PH/CONDUCTIVITY METER



1. Mini design with size 180x50x20mm.
2. Auto calibration, auto power-off, low voltage alarm, electrode failure warning.
3. IP57 waterproof, replaceable electrode.

## SPECIFICATIONS

Model	BFU1Z1	BFU1Z2	BFU1Z3
Description	pH Meter		Conductivity Meter
Measuring Range	-1.00~15.00pH		Conductivity (0 ~ 10)mS/cm: (0~99.9)µS/cm, (100~999)µS/cm, (1.00~10.00)mS/cm.
Resolution	0.1pH	0.01pH	0.1/1µS/cm; 0.01mS/cm
Accuracy	±0.2pH	±0.05pH	±3%FS
Temp. Compensation	0 ~ 60°C		
Calibration	1-3 Point		1 Point
Power	Lithium batteries (CR2032) x 2		
Humidity	0.85		0.86
Standard Accessories	Backup batteries		
Alt Name	Pen Type pH/Conductivity Meter		

# CONDUCTIVITY METER BFU1BB1

CONDUCTIVITY METER



1. Large LCD screen with controllable white backlight.
2. Built-in microprocessor chip has Intelligent functions such as auto calibration, ATC, data storage, function settings, auto diagnosis, auto power off, and undervoltage prompt, etc.
3. Adopt advanced conductivity measurement technology, with conductivity electrode (K=1), it can meet measuring accuracy requirement for range of 0.5µS/cm ~ 200mS/cm.
4. Can switch among conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
5. Auto recognition of 8 conductivity standard solutions with 2 kinds of options: Europe & USA, and China.

## SPECIFICATIONS

Model	BFU1BB1
Cond. Measuring range	Conductivity:
Cond. Resolution	0.01/0.1/1 $\mu$ S/cm; 0.01/0.1 mS/cm
Cond. Accuracy	$\pm$ 1.0% FS, Overall: $\pm$ 1.5% FS
Cond. Temp. compensation	(0~100) $^{\circ}$ C(Auto/manual)
Cond. Electrode constant	0.1 / 1 / 10 cm-1
Temp. Measuring range	(0 ~ 100) $^{\circ}$ C
Temp. Resolution	0.1 $^{\circ}$ C
Temp. Accuracy	5 ~ 60 $^{\circ}$ C: $\pm$ 0.4 $^{\circ}$ C Others: $\pm$ 0.8 $^{\circ}$ C
Other Data storage	200 sets
Other Power	AA batteries (1.5V x2)
Other Ambient Temp.	5 ~ 35 $^{\circ}$ C
Alt Name	Conductivity Meter

## CONDUCTIVITY METER BFU1BH1

### CONDUCTIVITY METER



1. 6.5-inch LCD screen with concise and friendly-use interface.
2. Built-in microprocessor chip has Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, wireless printing, and self-diagnosis information, etc.
3. Adopt advanced conductivity measurement technology, with conductivity electrode (K=1), it can meet measuring accuracy requirement for range of 0.5 $\mu$ S/cm ~ 200mS/cm.
4. Can switch among conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
5. Auto recognition of 8 conductivity standard solution with 2 kinds of options:

## SPECIFICATIONS

Model	BFU1BH1
Cond.	Conductivity:
Cond. Measuring range	(0.00~20.00) $\mu$ S/cm, (20.0~200.0) $\mu$ S/cm
Cond. Resolution	0.01/0.1/1 $\mu$ S/cm, 0.01/0.1/1mS/cm
Cond. Accuracy	Electrode: $\pm$ 0.5% FS, Meter: $\pm$ 0.80% FS
Cond. Temp. compensation	(0 ~ 100) $^{\circ}$ C, auto
Cond. Electrode constant	0.1/1/10 cm-1
Cond. Reference Temp.	25 $^{\circ}$ C, 20 $^{\circ}$ C, 18 $^{\circ}$ C
Temp. Measuring range	(0 ~ 100) $^{\circ}$ C
Temp. Resolution	0.1 $^{\circ}$ C
Temp. Accuracy	5 ~ 60 $^{\circ}$ C: $\pm$ 0.4 $^{\circ}$ C Others: $\pm$ 0.8 $^{\circ}$ C
Other Display	6.5-inch LCD screen
Other Data storage	1000 sets
Other Power	12V/1A
Other Output	USB
Other Ambient Temp.	5 ~ 35 $^{\circ}$ C
Other Ambient Humidity	$\leq$ 85%

Other IP grade	IP54
Other Dimensions/N.W.	215x170x37mm/600g
Other Shipping Size/G.W.	470x430x72mm/3kg
Standard Accessories	Cond. electrode (K=1), Temperature probe, Power adapter, Manual
Alt Name	Conductivity Meter

## FEATURES

1. 6.5-inch LCD screen with concise and friendly-use interface.
2. Built-in microprocessor chip has Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, wireless printing, and self-diagnosis information, etc.
3. Adopt advanced conductivity measurement technology, with conductivity electrode (K=1), it can meet measuring accuracy requirement for range of 0.5 $\mu$ S/cm ~ 200mS/cm.
4. Can switch among conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
5. Auto recognition of 8 conductivity standard solution with 2 kinds of options: Europe & USA, and China.
6. Wireless bluetooth printing and real-time data transfer to mobile phone are optional.
7. Smart electrode status display to ensure accurate use.
8. Omron's long lasting and light touch key can be used more than 100,000 times.
9. Can store 1000 sets of test data, which can be saved and transferred to USB memory stick and opened with Excel.

## CONDUCTIVITY METER BFU1BX1

### CONDUCTIVITY METER



1. 5-inch LCD screen with 150° viewing angle for clear reading out of 5-meter.
2. The built-in microprocessor chip has Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, automatic power-off and low voltage alarm, etc.
3. Two USB interfaces for PC connection, battery charging, and data transfer.
4. The 3.5mm electrode interface makes it very easy for electrode connection.
5. Automatic recognition of different electrodes. The electrode with built-in chip can automatically store and retrieve calibration data after connecting with the meter.
6. Automatic recognition of 8 calibration solutions with two standards of options: Europe & USA and China.
7. Can store 200 sets of data including readings, GLP data, date and time.

## SPECIFICATIONS

Model	BFU1BX1
Conductivity Measuring range	Conductivity: (0.00~20.00) $\mu$ S/cm; (20.0~200.0) $\mu$ S/cm; (200~2000) $\mu$ S/cm; (2.00~20.00)mS/cm; (20.0~200.0)mS/cm
Conductivity Resolution	0.01/0.1/1 $\mu$ S/cm; 0.01/0.1mS/cm
Conductivity Accuracy	Meter: $\pm$ 1.50% FS; Electrode: $\pm$ 1.0% FS
Conductivity Temp. compensation range	(0 ~ 50) $^{\circ}$ C , auto
Conductivity Electrode constant	0.1 / 1 / 10 cm <sup>-1</sup>
Temperature Measuring range	(-10 ~ 110) $^{\circ}$ C
Temperature Resolution	0.1 $^{\circ}$ C
Temperature Accuracy	5~ 60 $^{\circ}$ C: range: $\pm$ 0.5 $^{\circ}$ C; other range: $\pm$ 1.0 $^{\circ}$ C
Other Display	5-Inch white backlit LCD screen
Other Data storage	200 sets
Other Power	DC 5V/1A
Other Communication connector	Micro USB & Standard USB

Other Dimension/N.W.	180 x 130 x 14mm/280g
Working Condition Environment Temp.	5 ~ 35 °C
Working Condition Environmental	≤85%
Working Condition IP Grade	IP54
Standard Accessories	Cond. electrode (K=1), Temperature probe, Power adapter, Manual
Alt Name	Conductivity Meter

## FEATURES

1. 5-inch LCD screen with 150° viewing angle for clear reading out of 5-meter.
  2. The built-in microprocessor chip has Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, automatic power-off and low voltage alarm, etc.
  3. Two USB interfaces for PC connection, battery charging, and data transfer.
  4. The 3.5mm electrode interface makes it very easy for electrode connection.
  5. Automatic recognition of different electrodes. The electrode with built-in chip can automatically store and retrieve calibration data after connecting with the meter.
  6. Automatic recognition of 8 calibration solutions with two standards of options: Europe & USA and China.
  7. Can store 200 sets of data including readings, GLP data, date and time.
  8. A rechargeable battery can last for 30 hours. Auto power off when no operation in 10 minutes.
- Specification

## CONDUCTIVITY METER BFU1BP1

### CONDUCTIVITY METER



1. 7-inch colored capacitive touch screen with high resolution (1024\*600) and high sensitivity.
2. Built-in microprocessor chip has Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, wireless printing, and self-diagnosis information, etc.
3. Adopting advanced conductivity measurement technology, with conductivity electrodes (K=1), it can meet measuring accuracy requirements for a range of 0.5µS/cm ~ 200mS/cm.
4. Can switch among conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.

## SPECIFICATIONS

Model	BFU1BP1
Cond. Measuring range	Conductivity:
Cond. Resolution	0.01/0.1/1µS/cm; 0.01/0.1/1mS/cm
Cond. Accuracy	Electrode: ±0.5% FS, Meter: ±0.8% FS
Cond. Temp. compensation range	(0 ~ 50)°C, auto
Cond. Electrode constant	0.1/0.5/1/5/10/50/100 cm-1
Cond. Reference Temp.	25°C, 20°C, 18°C
Temp Range	(-10 ~ 110)°C
Temp Resolution	0.1°C
Temp Accuracy	5 ~ 60°C: ±0.4°C Others: ±0.8°C
Others Display	7-inch colored capacitive touch screen
Others Data storage	1000 sets
Others Power	12V/1A
Others Output	USB

Others Ambient Temp.	15 ~ 30 °C
Others Ambient Humidity	≤85%
Others IP grade	IP54
Others Dimensions/N.W.	215x170x37mm/600g
Others Shipping Size/G.W.	470x430x72mm/3kg
Standard Accessories	Cond. electrode (K=1), Temperature probe, Power adapter, Manual
Alt Name	Conductivity Meter

## FEATURES

1. 7-inch colored capacitive touch screen with high resolution (1024\*600) and high sensitivity.
2. Built-in microprocessor chip has Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, wireless printing, and self-diagnosis information, etc.
3. Adopting advanced conductivity measurement technology, with conductivity electrodes (K=1), it can meet measuring accuracy requirements for a range of 0.5 $\mu$ S/cm ~ 200mS/cm.
4. Can switch among conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
5. Auto recognition of 8 conductivity standard solution with 2 kinds of options: Europe & USA, and China.
6. It supports PC connection. Wireless bluetooth printing and real-time data transfer to mobile phones are optional.
7. Smart electrode status display to ensure accurate use.
8. Can store 1000 sets of test data, which can be saved and transferred to USB memory stick and opened with Excel.

## CONDUCTIVITY METER BFU1BF1

### CONDUCTIVITY/DO METER



1. Large LCD screen with controllable white backlight.
2. Built-in microprocessor chip has Intelligent functions such as auto calibration, ATC, data storage, function settings, auto diagnosis, auto power off, and undervoltage prompt, etc.
3. Auto recognition of 8 conductivity standard solutions with 2 kinds of options: Europe & USA, and China.
4. It has functions of ATC, auto salinity compensation and manual pressure compensation.
5. Polarographic DO electrode, short polarization time (3-5 minutes).

## SPECIFICATIONS

Model	BFU1BF1
Cond. Measuring rang	Conductivity:
Cond. Resolution	0.01/0.1/1 $\mu$ S/cm; 0.01/0.1 mS/cm
Cond. Accuracy	±1.0% FS, Overall: ±1.5% FS
Temp. compensation	(0~100)°C(Auto/manual)
Electrode constant	0.1 / 1 / 10 cm-1
DO Measuring range	(0 ~ 20.00) mg/L(ppm), (0 ~ 200.0)%
DO Resolution	0.1/0.01 mg/L(ppm), 1/0.1 %
DO Accuracy	Electrode: ±0.10 mg/L, Instrument: ±0.40 mg/L
DO Response time	≤30s (25°C, 90%response)
DO Residual current	≤0.1 mg/L

DO Temp. compensation	(0 ~ 45)°C (auto)
DO Salinity compensation	(0 ~ 45) ppt (auto)
DO Pressure compensation	(66 ~ 200) kPa (manual)
DO Auto calibration	Air saturated by water, water saturated by air
DO Electrode type	Polarographic
Temp. Measuring range	(0 ~ 100)°C
Temp. Resolution	0.1°C
Temp. Accuracy	5 ~ 60°C: ±0.4°C Others: ±0.8°C
Other Data storage	200 sets
Other Power	AA batteries (1.5V x2)
Other Ambient Temp.	5 ~ 35 °C
Other Ambient humidity	≤85%
Other IP grade	IP57 Dustproof and waterproof
Other Dimensions/N.W.	160x90x30mm/360g
Other Shipping size/G.W.	480x300x60mm/1KG
Standard Accessories	Cond. electrode (K=1), DO electrode, Temperature probe, DO filling solution, Manual
Alt Name	Conductivity/DO Meter

## CONDUCTIVITY METER BFU1BL1

### CONDUCTIVITY/DO METER



1. 6.5-inch LCD screen with concise and friendly-use interface.
2. Built-in microprocessor chip has Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, wireless printing, and self-diagnosis information, etc.
3. Auto recognition of 8 conductivity standard solutions with 2 kinds of options: Europe & USA, and China.
4. It has functions of ATC, auto salinity compensation and auto pressure compensation.
5. Polarographic DO electrode, short polarization time (3-5 minutes).
6. Wireless bluetooth printing and real-time data transfer to mobile phones are optional.

## SPECIFICATIONS

Model	BFU1BL1
Cond. Measuring range	Conductivity:
Cond. Resolution	0.01/0.1/1μS/cm; 0.01/0.1/1mS/cm
Cond. Accuracy	Electrode: ±0.5% FS, Meter: ±0.8% FS
Cond. Temp. compensation range	(0 ~ 50)°C, auto
Cond. Electrode constant	0.1/0.5/1/5/10/50/100 cm <sup>-1</sup>
Cond. Reference Temp	25°C, 20°C, 18°C
DO Measuring range	(0-20.00)mg/L(ppm), (0-200.0)%
DO Resolution	0.1/0.01 mg/L(ppm), 1/0.1 %
DO Accuracy	Electrode: ±0.10 mg/L, Meter: ±0.40 mg/L
DO Response time	≤30s (25°C, 90% response)
DO Residual current	≤0.1 mg/L
DO Temp compensation	(0 ~ 45)°C, auto

DO Salinity compensation	(0 ~ 45) ppt, auto
DO Pressure compensation	(80 ~ 105) kPa, auto
DO Auto calibration	Air saturated by water, water saturated by air
DO Electrode type	Polarographic
Temp. Range	(-10 ~ 110)°C
Temp. Resolution	0.1°C
Temp. Accuracy	5 ~ 60°C: ±0.4°C Others: ±0.8°C
Other Display	6.5-inch LCD screen
Other Data storage	1000 sets
Other Power	12V/1A
Other Output	USB
Other Ambient Temp.	5 ~ 35 °C
Other Ambient Humidity	≤85%
Other IP grade	IP54
Other Dimensions/N.W	215x170x37mm/600g
Other Shipping Size/G.W	470x430x72mm/3kg
Standard Accessories	Cond. electrode (K=1), DO electrode, Temperature probe, DO filling solution, Power adapter, Manual
Alt Name	Conductivity/DO Meter

## FEATURES

1. 6.5-inch LCD screen with concise and friendly-use interface.
2. Built-in microprocessor chip has Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, wireless printing, and self-diagnosis information, etc.
3. Auto recognition of 8 conductivity standard solutions with 2 kinds of options: Europe & USA, and China.
4. It has functions of ATC, auto salinity compensation and auto pressure compensation.
5. Polarographic DO electrode, short polarization time (3-5 minutes).
6. Wireless bluetooth printing and real-time data transfer to mobile phones are optional.
7. Smart electrode status display to ensure accurate use.
8. Can store 1000 sets of test data, which can be saved and transferred to a USB memory stick and opened with Excel.

## CONDUCTIVITY METER BFU1X1

### CONDUCTIVITY METER



1. The large color touchscreen provides direct measurement and easy data entry.
2. GLP User management
3. The instrument stores data like timestamp, sample and sensor ID with every measurement and prints or exports records automatically.

## SPECIFICATIONS

Model	BFU1X1
Cond. Measuring range	Conductivity: 0.000µS/cm-2000µS/cm
Cond Measuring range	(0.000-1.999)µS/cm, (2.000-19.999)µS/cm



Cond. Accuracy	±0.5%
Cond. Temp. Compensation	(0 ~ 100)°C, auto
Cond. Electrode constant	0.1/1/10 cm-1
Cond. Reference Temp.	25°C, 20°C, 18°C
Temp. Measuring range	(-30.0 ~ 130.0)°C
Temp. Resolution	0.1°C
Temp. Accuracy	±0.1°C (0~100.0°C), ±0.3°C (100.0°C)
Other Data storage	2000 sets
Other Power	DC 12V/1A
Other Output	USB
Other Ambient Temp.	5 ~ 40 °C
Other Ambient Humidity	≤85%
Other IP grade	IP54
Other Dimensions/N.W.	215x170x37mm/600g
Other Shipping Size/G.W.	470x430x72mm/3kg
Standard Accessories	Cond. electrode (K=1), Temperature probe, Electrode holder, Stirrer, Power adapter, Manual
Alt Name	Conductivity Meter

## CONDUCTIVITY METER BFU1Y1

PH/CONDUCTIVITY METER



1. The large color touchscreen provides direct measurement and easy data entry.
2. GLP User management
3. The instrument stores data like timestamp, sample and sensor ID with every measurement and prints or exports records automatically.

## SPECIFICATIONS

Model	BFU1Y1
pH Measuring range	(-2.000 ~ 20.000)pH
pH Resolution	0.1/0.01/0.001 pH
pH Accuracy	±0.002pH
pH Auto calibration	1, 2, 3, 4, 5 point
pH Buffer	Europe & USA, NIST, China standards
pH Input current	≤2x10 <sup>-12</sup> A
pH Input impedance	≥1x10 <sup>12</sup> Ω
pH Stability	±0.01 pH/3h
pH Temp. compensation	(0 ~ 100)°C, auto or manual
mV ORP Measuring range	(-2000.0~ 0 ~ 2000.0)mV
mV ORP Resolution	1/0.1 mV
mV ORP Accuracy	±0.1 (-500.0~500.0) mV, ±0.2 (500.0mV)
Cond. Measuring range	Conductivity: 0.000µS/cm-2000µS/cm

Cond. Resolution	0.001/0.01/0.1/1 $\mu$ S/cm, 0.001/0.01/0.1/1mS/cm
Cond. Accuracy	$\pm$ 0.5%
Cond. Temp. compensation	(0 ~ 100) $^{\circ}$ C, auto
Cond. Electrode constant	0.1/1/10 cm <sup>-1</sup>
Cond. Reference Temp.	25 $^{\circ}$ C, 20 $^{\circ}$ C, 18 $^{\circ}$ C
Other Data storage	2000 sets
Other Power	DC 12V/1A
Other Output	USB
Other Ambient Temp.	5 ~ 40 $^{\circ}$ C
Other Ambient Humidity	$\leq$ 85%
Other IP grade	IP54
Other Dimensions/N.W.	215x170x37mm/600g
Other Shipping Size/G.W.	470x430x72mm/3kg
Standard Accessories	pH electrode, Cond. electrode (K=1), Temperature probe, Electrode holder, Stirrer, Buffer solution, Power adapter, Manual
Alt Name	pH/Conductivity Meter

## CONDUCTIVITY METER BFU1BT1

### CONDUCTIVITY/DO METER



1. 7-inch colored capacitive touch screen with high resolution (1024\*600) and high sensitivity.
2. Built-in microprocessor chips have Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, wireless printing, and self-diagnosis information, etc.
3. Auto recognition of 8 conductivity standard solutions with 2 kinds of options: Europe & USA, and China.
4. It has functions of ATC, auto salinity compensation and auto pressure compensation.
5. Polarographic DO electrode, short polarization time (3-5 minutes).
  - It supports PC connection. Wireless bluetooth printing and real-time data transfer to mobile phones are optional.

## SPECIFICATIONS

Model	BFU1BT1
Cond. Measuring range	Conductivity:
Cond. Resolution	0.01/0.1/1 $\mu$ S/cm; 0.01/0.1/1mS/cm
Cond. Accuracy	Electrode: $\pm$ 0.5% FS, Meter: $\pm$ 0.8% FS
Cond. Temp. compensation range	(0 ~ 50) $^{\circ}$ C, auto
Cond. Electrode constant	0.1/0.5/1/5/10/50/100 cm <sup>-1</sup>
Cond. Reference Temp.	25 $^{\circ}$ C, 20 $^{\circ}$ C, 18 $^{\circ}$ C
DO Measuring range	(0-20.00)mg/L(ppm), (0-200.0)%
DO Resolution	0.1/0.01 mg/L(ppm), 1/0.1 %
DO Accuracy	Electrode: $\pm$ 0.10 mg/L, Meter: $\pm$ 0.40 mg/L
DO Response time	$\leq$ 30s (25 $^{\circ}$ C, 90% response)
DO Residual current	$\leq$ 0.1 mg/L
DO Temp compensation	(0 ~ 45) $^{\circ}$ C, auto
DO Salinity compensation	(0 ~ 45) ppt, auto

DO Pressure compensation	(80 ~ 105) kPa, auto
DO Auto calibration	Air saturated by water, water saturated by air
DO Electrode type	Polarographic
Temp. Range	(-10 ~ 110)°C
Temp. Resolution	0.1°C
Temp. Accuracy	5 ~ 60°C: ±0.4°C Others: ±0.8°C
Others Display	7-inch colored capacitive touch screen
Others Data storage	1000 sets
Others Power	12V/1A
Others Output	USB
Others Ambient Temp.	15 ~ 30 °C
Others Ambient Humidity	≤85%
Others IP grade	IP54
Others Dimensions/N.W.	215x170x37mm/600g
Others Shipping Size/G.W.	470x430x72mm/3kg
Standard Accessories	Cond. electrode (K=1), DO electrode, Temperature probe, DO filling solution, Power adapter, Manual
Alt Name	Conductivity/DO Meter

## FEATURES

1. 7-inch colored capacitive touch screen with high resolution (1024\*600) and high sensitivity.
  2. Built-in microprocessor chips have Intelligent functions such as automatic calibration, ATC, data storage, clock display, USB output, function settings, wireless printing, and self-diagnosis information, etc.
  3. Auto recognition of 8 conductivity standard solutions with 2 kinds of options: Europe & USA, and China.
  4. It has functions of ATC, auto salinity compensation and auto pressure compensation.
  5. Polarographic DO electrode, short polarization time (3-5 minutes).
- It supports PC connection. Wireless bluetooth printing and real-time data transfer to mobile phones are optional.
  - Smart electrode status display to ensure accurate use.
  - Can store 1000 sets of test data, which can be saved and transferred to USB memory stick and opened with Excel.



**Biolab Scientific Ltd.**

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada  
 Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)