





# PH METER BFU1BU1





# PH METER BFU1BU1

#### PH/CONDUCTIVITY/DO 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. Auto recognition of 25 buffers with three kinds of options: Europe & USA, NIST and China.
- 4. Auto recognition of 8 conductivity standard solutions with 2 kinds of options: Europe & USA, and China.
- 5. Polarographic DO electrode, short polarization time (3-5 minutes).
- 6. It supports PC connection. Wireless bluetooth printing and real-time data transfer to mobile phones are optional.

# **SPECIFICATIONS**

pH Auto calibration         1, 2, 3 point           pH Buffer         Europe & USA, NIST, China standards           pH Input current         ≤1x10-12 A           pH Input impedance         ±3x1012 Q           pH Stability         ±0.002 pH/3h           pH Temp. compensation         (0 ~ 100)°C, auto or manual           mV ORP Measuring range         -1999.9mV ~ 0 ~ 1999.9mV           mV ORP Resolution         0.1 mV           mV ORP Accuracy         ±0.03% FS           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         (0 ~ 100)°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           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. Resolution         0.1/0.01 mg/L(ppm), 1/0.0 %           DO. Resolution         0.1/0.01 mg/L(ppm), 1/0.0 %           DO. Residual current         ≤0.1 mg/L           DO. Temp compensation         (0 ~ 45)°C, auto           DO. Temp compensation         (0 ~ 45)°C, auto	Model	BFU1BU1
PH Accuracy PH Accuracy PH Auto calibration PH Buffer PH Auto calibration PH Buffer Europe & USA, NIST, China standards PH Input current PH Input current PH Input impedance PH Input impedance PH Stability PH Temp. compensation WORP Measuring range PH One Massuring range PH One PH O	pH Measuring range	(-1.999 ~ 19.999)pH
pH Auto calibration pH Buffer Europe & USA, NIST, China standards pH Input current pH Input current pH Input impedance pH Stability ph Temp. compensation mV ORP Measuring range mV ORP Measuring range mV ORP Resolution mV ORP Accuracy Cond. Measuring range Conductivity: Cond. Accuracy Cond. Resolution Cond. Electrode constant Cond. Electrode constant Cond. Reference Temp. DO. Measuring range DO. Resolution DO. Resolution DO. Resolution O. 1.70.571/5/10/50/100 cm-1 Cond. Seponse time Solution DO. Response time DO. Residual current DO. Salinity compensation Cond. Cond. Seponse time Sol. Timp/L DO. Temp compensation Cond. Seponse time DO. Salinity compensation Cond. Seponse time Polarographic Temp. Measuring range Cond. Temp. Water, water saturated by air DO. Electrode type Polarographic Temp. Measuring range Cond. Temp. Surger Su	pH Resolution	0.1/0.01/0.001 pH
pH Buffer         Europe & USA, NIST, China standards           pH Input current         ≤1x10-12 A           pH Input impedance         ±3x1012 Ω           pH Stability         ±0.002 pH/3h           pH Temp. compensation         (0 ~ 100)°C, auto or manual           mV ORP Measuring range         -1999.9mV ~ 0 ~ 1999.9mV           mV ORP Resolution         0.1 mV           mV ORP Accuracy         ±0.03% FS           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         (0 ~ 100)°C, auto           Cond. Fleetrode constant         0.1/0.5/1/5/10/50/100 cm-1           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. Resolution         0.1/0.01 mg/L, Meter: ±0.40 mg/L           Do. Resolution         €lectrode: ±0.10 mg/L, Meter: ±0.40 mg/L           Do. Residual current         ≤0.1 mg/L           Do. Residual current         ≤0.1 mg/L           Do. Temp compensation         (0 ~ 45)°C, auto           Do. Salinity compensation         (0 ~ 45)°C, auto<	pH Accuracy	Electrode: ±0.002 pH, Meter: ±0.01 pH
pH Input current         \$1x10-12 A           pH Input impedance         \$2x1012 Ω           pH Stability         ±0.002 pH/3h           pH Temp. compensation         (0 ~ 100)°C, auto or manual           mV ORP Measuring range         -1999.9mV ~ 0 ~ 1999.9mV           mV ORP Resolution         0.1 mV           mV ORP Accuracy         ±0.03% FS           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         (0 ~ 100)°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           DO. Measuring range         (0-20.0)mg/L(ppm), (0-200.0)%           DO. Resolution         0.1/0.01 mg/L(ppm), (0-200.0)%           DO. Accuracy         Electrode: ±0.10 mg/L, Meter: ±0.40 mg/L           DO. Residual current         ≤30s (25°C, 90% response)           DO. Residual current         ≤0.1 mg/L           DO. Temp compensation         (0 ~ 45)°C, auto           DO. Salinity compensation         (0 ~ 45)°C, auto           DO. Pressure compensation         (0 ~ 45)°C, auto           DO. Pressure compensation         (0 ~ 100)	pH Auto calibration	1, 2, 3 point
pH Input impedance	pH Buffer	Europe & USA, NIST, China standards
pH Stability pH Temp. compensation	pH Input current	≤1x10-12 A
pH Temp. compensation  (0 ~ 100)°C, auto or manual  mV ORP Measuring range  -1999.9mV ~ 0 ~ 1999.9mV  mV ORP Resolution  mV ORP Accuracy  t_0.03% FS  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  (0 ~ 100)°C, auto  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. Residual current  20.1 mg/L  DO. Temp compensation  (0 ~ 45)°C, auto  DO. Salinity compensation  (0 ~ 45) ppt, auto  DO. Auto calibration  Air saturated by water, water saturated by air  DO. Electrode type  Temp. Measuring range  (0 ~ 100)°C  Temp. Resolution  0.1°C	pH Input impedance	23x1012 Ω
mV ORP Measuring range         -1999.9mV ~ 0 ~ 1999.9mV           mV ORP Resolution         0.1 mV           mV ORP Accuracy         ±0.03% FS           Cond. Measuring range         Conductivity:           Cond. Resolution         0.01/0.1/1µS/cm; 0.01/0.1/1mS/cm           Cond. Resolution         €lectrode: ±0.5% FS, Meter: ±0.8% FS           Cond. Temp. compensation         (0 ~ 100)°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           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. Resolution         €lectrode: ±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)°C, auto           DO. Pressure compensation         (0 ~ 45)°C, auto           DO. Pressure compensation         (0 ~ 45)°C, auto           DO. Pressure compensation         (0 ~ 45)°C, auto           DO. Auto calibration         Air saturated by water, water saturated by air           DO. Electrode type         Polarographic <td< td=""><td>pH Stability</td><td>±0.002 pH/3h</td></td<>	pH Stability	±0.002 pH/3h
mV ORP Resolution  mV ORP Accuracy  £0.03% FS  Cond. Measuring range  Conductivity:  Cond. Resolution  O.01/0.1/1µS/cm; 0.01/0.1/1mS/cm  Cond. Accuracy  Electrode: ±0.5% FS, Meter: ±0.8% FS  Cond. Temp. compensation  (0 ~ 100)°C, auto  Cond. Electrode constant  O.1/0.5/1/5/10/50/100 cm-1  Cond. Reference Temp.  25°C, 20°C, 18°C  DO. Measuring range  (0-20.00)mg/L(ppm), (0-200.0)%  DO. Resolution  O.1/0.01 mg/L(ppm), 1/0.1 %  Electrode: ±0.10 mg/L, Meter: ±0.40 mg/L  DO. Response time  \$\text{30s} (25°C, 90% response)  DO. Residual current  \$\text{0.1 mg/L}  DO. Temp compensation  (0 ~ 45)°C, auto  DO. Salinity compensation  (0 ~ 45) pt, auto  DO. Pressure compensation  Air saturated by water, water saturated by air  DO. Electrode type  Polarographic  Temp. Measuring range  (0 ~ 100)°C  Temp. Resolution  O.1°C	pH Temp. compensation	(0 ~ 100)°C, auto or manual
## ## ## ## ## ## ## ## ## ## ## ## ##	mV ORP Measuring range	-1999.9mV ~ 0 ~ 1999.9mV
Cond. Measuring range Conductivity:  Cond. Resolution  O.01/0.1/1µS/cm; 0.01/0.1/1mS/cm  Cond. Accuracy Electrode: ±0.5% FS, Meter: ±0.8% FS  Cond. Temp. compensation  (0 ~ 100)°C, auto  Cond. Electrode constant  O.1/0.5/1/5/10/50/100 cm-1  Cond. Reference Temp.  Do. Measuring range  (0-20.00)mg/L(ppm), (0-200.0)%  Do. Resolution  O.1/0.01 mg/L(ppm), 1/0.1 %  Do. Accuracy Electrode: ±0.10 mg/L, Meter: ±0.40 mg/L  Do. Response time  Sol.1 mg/L  Do. Temp compensation  (0 ~ 45)°C, auto  (0 ~ 45)°C, auto  Do. Salinity compensation  (0 ~ 45) ppt, auto  Do. Pressure compensation  Air saturated by water, water saturated by air  Do. Electrode type  Polarographic  Temp. Measuring range  (0 ~ 100)°C  Temp. Resolution  O.1°C	mV ORP Resolution	0.1 mV
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         (0 ~ 100)°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           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. Measuring range         (0 ~ 100)°C           Temp. Resolution         0.1°C	mV ORP Accuracy	±0.03% FS
Cond. Accuracy         Electrode: ±0.5% FS, Meter: ±0.8% FS           Cond. Temp. compensation         (0 ~ 100)°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           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. Measuring range         (0 ~ 100)°C           Temp. Resolution         0.1°C	Cond. Measuring range	Conductivity:
Cond. Temp. compensation         (0 ~ 100)°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           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. Measuring range         (0 ~ 100)°C           Temp. Resolution         0.1°C	Cond. Resolution	0.01/0.1/1μS/cm; 0.01/0.1/1mS/cm
Cond. Electrode constant         0.1/0.5/1/5/10/50/100 cm-1           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. Measuring range         (0 ~ 100)°C           Temp. Resolution         0.1°C	Cond. Accuracy	Electrode: ±0.5% FS, Meter: ±0.8% FS
Cond. Reference Temp.  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. Measuring range  (0 ~ 100)°C  Temp. Resolution  0.1°C	Cond. Temp. compensation	(0 ~ 100)°C, auto
D0. Measuring range       (0-20.00)mg/L(ppm), (0-200.0)%         D0. Resolution       0.1/0.01 mg/L(ppm), 1/0.1 %         D0. Accuracy       Electrode: ±0.10 mg/L, Meter: ±0.40 mg/L         D0. Response time       ≤30s (25°C, 90% response)         D0. Residual current       ≤0.1 mg/L         D0. Temp compensation       (0 ~ 45)°C, auto         D0. Salinity compensation       (0 ~ 45) ppt, auto         D0. Pressure compensation       (80 ~ 105) kPa, auto         D0. Auto calibration       Air saturated by water, water saturated by air         D0. Electrode type       Polarographic         Temp. Measuring range       (0 ~ 100)°C         Temp. Resolution       0.1°C	Cond. Electrode constant	0.1/0.5/1/5/10/50/100 cm-1
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. Measuring range       (0 ~ 100)°C         Temp. Resolution       0.1°C	Cond. Reference Temp.	25°C, 20°C, 18°C
DO. Accuracy  Electrode: ±0.10 mg/L, Meter: ±0.40 mg/L  DO. Response time  \$\( \) \(	DO. Measuring range	(0-20.00)mg/L(ppm), (0-200.0)%
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. Measuring range       (0 ~ 100)°C         Temp. Resolution       0.1°C	DO. Resolution	0.1/0.01 mg/L(ppm), 1/0.1 $\%$
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. Measuring range       (0 ~ 100)°C         Temp. Resolution       0.1°C	DO. Accuracy	Electrode: ±0.10 mg/L, Meter: ±0.40 mg/L
DO. Temp compensation  (0 ~ 45)°C, auto  (0 ~ 45) ppt, auto  (80 ~ 105) kPa, auto  DO. Auto calibration  Air saturated by water, water saturated by air  DO. Electrode type  Temp. Measuring range  (0 ~ 100)°C  Temp. Resolution  O.1°C	DO. Response time	≤30s (25°C, 90% response)
DO. Salinity compensation  (0 ~ 45) ppt, auto  (80 ~ 105) kPa, auto  DO. Auto calibration  Air saturated by water, water saturated by air  DO. Electrode type  Polarographic  Temp. Measuring range  (0 ~ 100)°C  Temp. Resolution  O.1°C	DO. Residual current	≤0.1 mg/L
DO. Pressure compensation  (80 ~ 105) kPa, auto  DO. Auto calibration  Air saturated by water, water saturated by air  Polarographic  Temp. Measuring range  (0 ~ 100)°C  Temp. Resolution  0.1°C	DO. Temp compensation	(0 ~ 45)°C, auto
DO. Auto calibration  Do. Electrode type  Temp. Measuring range  Temp. Resolution  Air saturated by water, water saturated by air  Polarographic  (0 ~ 100)°C  Temp. Resolution  0.1°C	DO. Salinity compensation	(0 ~ 45) ppt, auto
DO. Electrode type Polarographic  Temp. Measuring range (0 ~ 100)°C  Temp. Resolution 0.1°C	DO. Pressure compensation	(80 ~ 105) kPa, auto
Temp. Measuring range (0 ~ 100)°C  Temp. Resolution 0.1°C	DO. Auto calibration	Air saturated by water, water saturated by air
Temp. Resolution 0.1°C	DO. Electrode type	Polarographic
·	Temp. Measuring range	(0 ~ 100)℃
Temp. Accuracy 5 ~ 60°C: ±0.4°C Others: ±0.8°C	Temp. Resolution	0.1°C
	Temp. Accuracy	5 ~ 60°C: ±0.4°C Others: ±0.8°C

Other Display	7-inch colored capacitive touch 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 Accessaries	pH electrode, Cond. electrode (K=1), DO electrode, Temperature probe, pH buffer solution, DO fillingsolution, Power adapter, Manual
Alt Name	pH/Conductivity/DO 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. Auto recognition of 25 buffers with three kinds of options: Europe & USA, NIST and China.
- 4. Auto recognition of 8 conductivity standard solutions with 2 kinds of options: Europe & USA, and China.
- 5. Polarographic DO electrode, short polarization time (3-5 minutes).
- 6. It supports PC connection. Wireless bluetooth printing and real-time data transfer to mobile phones are optional.
- 7. Can store 1000 sets of test data, which can be saved and transferred to a USB memory stick and opened with Excel.



### Biolab Scientific Ltd.