

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 | |
|----------|---|
| ITEM | DESCRIPTION |
| 1 | LCD display screen, 3.5 inches. |
| 2 | Multi-reading feature allows auto-read, timed-read and continuous-read. |
| 3 | Automatic/Manual temperature compensation ensures accurate results. |
| 4 | Auto-hold feature senses and locks the measurement endpoint. |
| 5 | Data capacity of up to 500 sets for each parameter (GLP-compliant). |
| 6 | Support for USB communication. |
| 7 | Auto-power off feature effectively extends the battery service life. |
| 8 | Reset feature automatically resumes all settings back to factory default options. |
| 9 | IP65 waterproof. |

| pH | |
|----|---|
| 1 | 1-5 points calibration with Standard Recognition. |
| 2 | Selectable pH buffer groups, including NIST, DIN, GB. |
| 3 | Automatic electrode diagnosis with pH slope and offset display. |

| ION | |
|-----|--|
| 1 | 1-5 points calibration. |
| 2 | Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, PX, etc. |
| 3 | Measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode. |
| 4 | 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 | 1-3 points calibration with Standard Recognition. |
| 2 | Settable parameters, including cell constant, temperature compensation coefficient, and TDS factor. |
| 3 | Temperature compensation type (none, linear, pure water). |

| DO | |
|----|---|
| 1 | Support for air-saturated water or zero oxygen calibration. |
| 2 | Auto barometric pressure compensation |
| 3 | Manual Salinity Factor Correction |
| 4 | 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.



| TECHNICAL SPECIFICATION | | |
|-------------------------|------------------------|--|
| FEATURE | DESCRIPTION | CAPACITY |
| PARAMETERS | | pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/ Sal./DO Saturation) |
| pH | RANGE | -2.00 to 20.00pH |
| | RESOLUTION | 0.1, 0.01 pH |
| | ACCURACY | ±0.01 pH |
| | CALIBRATION POINTS | Up to 5 |
| | STANDARD CUSTOMIZATION | Yes |
| | STANDARD RECOGNITION | NIST, GB and DIN buffers |
| | SLOPE LIMIT | Yes |
| mV | RANGE | -2000.0 to 2000.0 mV |
| | RESOLUTION | 0.1 |
| | ACCURACY | ±0.3 mV or ±0.1% |
| pX | RANGE | -2.00 to 20.00 |
| | RESOLUTION | 0.1, 0.01 pX |
| | ACCURACY | ±0.01 pX |
| | CALIBRATION POINTS | Up to 5 |
| ISE | RANGE | 0 to 19990 unit |
| | UNITS | mol/L, mmol/L, g/L, mg/L, µg/L |
| | RESOLUTION | Up to 4 significant digits |
| | ACCURACY | ±0.5% |
| | CALIBRATION POINTS | Up to 5 |
| CONDUCTIVITY | RANGE | ±1.0% (FS) |
| | RESOLUTION | 0.000 µS/cm to 500 mS/cm |
| | ACCURACY | 0.001 µS/cm minimum, various with range selection |
| | REFERENCE TEMPERATURE | ±1.0% |
| | CALIBRATION POINTS | FS 20, 25 °C |
| | STANDARD RECOGNITION | Up to 3 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 | 0.00mg/L~300g/L |
| | RESOLUTION | 0.01mg/L minimum, various with range selection |
| | ACCURACY | ±1.0% |

| TECHNICAL SPECIFICATION | | |
|--------------------------------|--------------------------------------|--|
| FEATURE | DESCRIPTION | CAPACITY |
| SALINITY | RANGE | (0.00~8.00)% |
| | RESOLUTION | 0.01% |
| | ACCURACY | ±0.2% |
| DISSOLVED OXYGEN CONCENTRATION | RANGE | 0.00 to 50.00 mg/L |
| | RESOLUTION | 0.01mg/L |
| | ACCURACY | ±0.1mg/L |
| | CALIBRATION POINTS | Air-saturated water or zero point |
| | BAROMETRIC COMPENSATION | Yes |
| | MANUAL SALINITY FACTOR CORRECTION | Yes |
| | RANGE | (0.0 to 300.0)% |
| SATURATION | RESOLUTION | 0.1% |
| | ACCURACY | ±10.0% |
| | RANGE | -5 to 110 °C, 23 to 230 °F |
| TEMPERATURE | UNIT | °C, °F |
| | RESOLUTION | 0.1 |
| | RELATIVE ACCURACY | ±0.2 |
| | MEASUREMENT | READING MODE |
| | READING PROMPTS | Reading, Stable, Locked |
| | TEMP. COMPENSATION | ATC, MTC |
| OUTPUTS | USB | PC, printer |
| INPUTS | PH ELECTRODE | BNC(Q9) |
| | DO WITH TEMP. PROBE | 4-pin aviation connector |
| | CONDUCTIVITY WITH TEMP. PROBE | 5-pin aviation connector |
| DATA MANAGEMENT | DATA STORAGE | 500 results each |
| | GLP FEATURES | Yes |
| DISPLAY OPTIONS | BACKLIGHT | Yes |
| | AUTO SHUTDOWN | 300, 600, 1200, 1800, 3600 sec., off |
| | IP RATING | IP65 |
| | DATE AND TIME | Yes |
| GENERAL | ELECTRICITY | Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V output |
| | DIMENSIONS | 80×255×35 mm |
| | WEIGHT | 400g |

