



Benchtop
Multiparameter Meter
LB-10BMM



Overview :

Benchtop Multiparameter Meter LB-10BMM is a benchtop multipurpose measuring system with nine distinct measurement modes. Offers a smart operating system with multiple reading features for automatic, timed and continuous reading. Features manual and automatic temperature compensation, selectable NIST, GB and DIN pH buffer groups, over 10 user-defined ISE methods, and auto-hold. Designed with 5.7-inch LCD display with high resolution and IP54 waterproof-rated housing, has data storage of 500 sets with GLP-compliant and USB or RS-232 interface for easy data processing.

Specifications :

Temperature Parameters	Range: -5 to 110 °C, 23 to 230 °F Unit: °C, °F Resolution: 0.1 Accuracy: ±0.2
Measurement Modes	Reading Mode: Auto Read (Fast, Medium, Slow), Timed, Continuous Reading Prompts: Reading, Stable, Locked, Temp. Compensation: ATC, MTC
Parameters	pH/ EC/ ISE/ Temp. (mV/ ORP/ pX/ Resistivity/ TDS /Sal.)
pH	Range: -2.00 to 20.00 pH Resolution: 0.1, 0.01 pH Accuracy: ±0.01 pH Calibration Points: Up to 5 Standard Recognition: NIST, GB, and DIN buffers Slope Limit
mV	Range: -2000.0 to 2000.0 mV Resolution: 0.1 mV Accuracy: ±0.3 mV or ±0.1%
pX	Range: -2.00 to 20.00 Resolution: 0.1, 0.01 pX Accuracy: ±0.01 pX Calibration Points: Up to 5
ISE	Range: 1E-9 to 9.999E9 Unit: mol/L, mmol/L, g/L, mg/L, µg/L, ppm Resolution: Up to 4 significant digits Accuracy: ±0.5% Calibration Points: Up to 5
Conductivity	Range: 0.000 µS/cm to 1000 mS/cm

	Resolution: 0.001 $\mu\text{S}/\text{cm}$ minimum (varies with range selection), Accuracy: $\pm 1.0\%$ FS Reference Temperature: 20, 25 $^{\circ}\text{C}$ Calibration Points: Up to 3 Standard Customization: 84 $\mu\text{S}/\text{cm}$, 1413 $\mu\text{S}/\text{cm}$, 12.88 mS/cm
Resistivity	Range: 5.00 $\Omega\cdot\text{cm}$ to 20.00 $\text{M}\Omega\cdot\text{cm}$ Resolution: 0.01 $\Omega\cdot\text{cm}$ minimum Accuracy: $\pm 1.0\%$ FS
TDS	Range: 0.00 mg/L to 300 g/L Resolution: 0.01 mg/L Accuracy: $\pm 1.0\%$ FS
Salinity	Range: 0 to 8.00 % Resolution: 0.01% Accuracy: $\pm 0.2\%$
Auto Shutdown Feature	Custom 1 to 60 min, can be disabled
pH Electrode	BNC (Q9)
DO with Temperature Probe	4-pin aviation connector
Conductivity with Temperature Probe	5-pin aviation connector
Data Storage	500 results each
Interface	USB 2.0 flash memory device, PC
Power Supply	AC Adapter, 100 to 240 V AC input, DC 9 V output
Dimension (L x W x H)	242 x 195 x 68 mm
Weight	900 g

Features :

1. Multi-purpose measuring system with nine programmable measurement parameters
2. Automated electrode diagnostics with pH slope and offset display
3. Measurement modes: Direct Reading, Standard Addition, Sample Addition, and GRAN
4. Supports units like $\mu\text{g}/\text{L}$, mg/L , g/L , mol/L , mmol/L , ppm, PX, etc
5. User-defined ISE methods for F-, Cl-, Br-, I-, NO_3^- , BF_4^- , NH_4^+ , etc
6. Auto-hold feature locks the measurement endpoint
7. IP54-rated housing, resistant to dust and splashes
8. Integrated Date and Time feature for real-time clock functionality
9. Built-in printer for printing results

Applications :

Benchtop Multiparameter Meter is used for advanced pH and conductivity analysis to record pH, mV, ORP, pX, ISE, conductivity, total dissolved solids (TDS), salinity, resistivity, and temperature measurements across healthcare, environmental protection, biological agriculture and forestry, water quality analysis, scientific research and educational institutions.