



Portable Multi-Parameter Tester LB-10PMT

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1. Safety Measures

- Corrosive liquids like beverages, tea, or sewage should not be utilized with the device.
- To prevent contaminating distilled water during calibration, the instrument must be cleaned of water stains and dirt at the probe.
- The instrument must be calibrated with distilled water (bottled distilled water is labeled "Distilled Water"), and it is prohibited to calibrate with mineral or natural drinking water.
- After measuring the liquid out of the instrument, the residual liquid needs to be cleaned up at the probe to avoid mixing the two different liquids, which might cause errors in the test results.
- Use a temperature of 0-50 °C, such as beyond kindly calibrate before use, extreme temperatures will cause permanent damage.
- Do not use alcohol and other organic solutions to clean the contact probe, as it will cause permanent damage.
- When an instrument is used for the first time or has been inactive for a while, it must be calibrated.
- The battery needs to be taken out when the instrument is not used for a long time.

2. Introduction

Portable Multi-Parameter Tester LB-10PMT is enhanced with a compact, and pen-like, design allowing for the simultaneous measurement of six parameters: temperature, electrical conductivity, TOC, UV275, TDS, and COD. Equipped with ambient temperature compensation functionality to ensure accurate and reliable measurements. User-friendly color screen display that utilizes different colors of backlighting to indicate different water quality levels.

3. Features

1. USB communication interface allows the transfer of stored data to a computer
2. Automatic Temperature Compensation ensures accurate measured values
3. Manual Temperature Calibration stimulates and corrects temperature deviations
4. Utilizing a color screen display provides an intuitive visualization of water quality levels
5. Cost-effective and affordable maintenance
6. Tool-free cleaning with safety

4. Specifications

Model No	LB-10PMT
Measurement Parameter	COD (Chemical Oxygen Demand), TOC (Total Organic Carbon), UV275 (Ultraviolet Absorption Value), TDS (Total Dissolved Solids), Electrical conductivity, Temperature
COD Range	0-100 mg/L
TOC Range	0-100 mg/L
UV275 Range	0-1.0 au/cm
TDS Range	0-2000 ppm
Electrical Conductivity Range	0-4000 us/cm
Temperature Range	0-50°C
COD Resolution	COD 0.01mg/L
TOC Resolution	TOC(0.01mg/L)
UV275 Resolution	UV275(0.001au/cm),
TDS Resolution	TDS(1ppm),
Conductivity Resolution	Conductivity(1us/cm),
Temperature Resolution	0.1°C
COD Accuracy	0-5mg/L:±0.5mg/L; 5-100mg/L:±10%H,
TOC Accuracy	0-5mg/L: ±0.5mg/L; 5-100mg/L: ±10%H
UV275 Accuracy	0-0.1au/cm: ±0.01au/cm; 0.1-1.0au/cm: ±10%H
TDS Accuracy	0-100ppm: ±5ppm; 100-2000ppm: ±5%H
Electrical Conductivity Accuracy	Electrical conductivity: 0-200us/cm: ±10us/cm; 200-4000us/cm: ±5%H
Temperature Accuracy	±1°C
Working Temperature Range	0 to 50°C
Storage Temperature Range	-10 to 60°C,
Power	2 AAA alkaline dry batteries
Relative Humidity	0 to 85%RH (no condensation)
Dimension	157 × 37 × 14 mm
Weight	68 g

5. Applications

It is mainly used to assess the quality of water in different settings, including drinking water sources, wastewater treatment plants, aquaculture facilities, and environmental monitoring sites.

6. Operations

1) Power on/off

Power on: Short press  button, the version and the serial number of the instrument host and probe are displayed on the screen at the same time after powering on, and then the instrument will enter the measurement interface.

Power off: Long press  the button to shut down the tester or within 3 minutes no operation automatically shuts down.

2) Calibration

The instrument must be calibrated when it is used for the first time or after a lengthy period of inactivity.

Long press  button to enter the calibration interface in measuring mode, On the calibration interface, short press  button to select the [Yes/No] option, and short press the  button to confirm the selection. At this time, insert the probe of the instrument into the distilled water and short press  to start calibration. After calibration is completed, it will prompt "Calibration successful!" and exit to the measurement page.

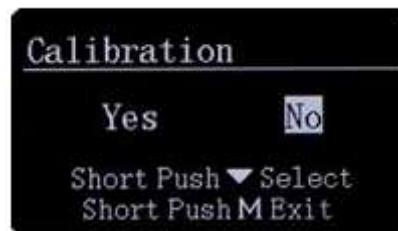


Figure-1

If the calibration fails, the possible reasons are as follows:

- The instrument has not been placed in distilled water.
- If the probe is contaminated, rinse it with clean water before calibrating.
- The attenuation of the light source makes it unable to work normally and needs to be returned to the factory for inspection and maintenance.

3) Measurement

Short press to measure after inserting the instrument's probe into the water sample to be tested. Following the measurement, the water quality will be graded by the test results, and the display will show various backlight colors depending on the results: poor -- red, general -- yellow, good -- green, excellent -- blue. Scoring judgment.

TOC(mg/L)	0-1.25	1.25-2.5	2.5-5.0	5.0-12.5
COD(mg/L)	0-0.75	0.75-1.5	1.5-3	3-7.5
TDS (mg/L)	0-250	250-500	500-1000	1000-2000
Score	90-100	80-90	60-80	<60
Judgement	Fine	Good	Average	Poor
Backlight	Blue	Green	Yellow	Red

4) Setup Calibration

Press and hold the  button for 3 seconds in the off state to enter the Main Menu of the instrument with three sub-options, press the  briefly to select [Language, Calibration, Exit], short press the  button to confirm the selection



Figure-2

Language: Short press  the button to enter the language option and press the  button to select the right language, then press the  button to confirm your selection.



Figure-3

Calibration: Short press the  if pressing the button to enter the calibration interface, the function is the same in the measurement interface to enter the calibration interface.

Exit: Short press  button briefly to exit the main interface and enter the measurement interface.

7. Accessories

Accessories	Quantity
Water Quality Meter	1 set
2 AAA alkaline battery	2 pcs
3 User Manual	1 pcs



Labotronics Scientific. 1007 N Orange St., Wilmington, DE 19801, USA.
info@labotronics.com | www.labotronics.com