



**BENCHTOP MULTI-PARAMETER WATER
QUALITY METER
LD-LMPWM-A43**

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Benchtop Multi-parameter Water Quality Meter LD-LMPWM-A43 with large backlit LCD (125 × 100 mm) display, measures pH, ORP, ion concentration, conductivity, TDS, salinity, resistivity and dissolved oxygen. Equipment saves space of the benchtop by combining multiple parameters in one unit. With expanded memory, it stores and recalls up to 500 data sets. Calibration due reminder informs the operator to calibrate the meter regularly. Setup menu allows you to set the number of calibration points, stability criteria, temperature unit, date and time, auto-power off, etc. USB communication interface for data transfer and timed interval readings.

Features:

➤ pH features

- 1 to 5 points calibration with Automatic recognition of USA, NIST and DIN buffers
- Automatic electrode diagnosis shows the pH slope and offset helps user to decide whether to replace sensor.

➤ ORP features

- 1 point offset calibration, can adjust display value to known standard
- Relative and absolute millivolt mode of measurement

➤ Ion Concentration features

- 2 to 5 points calibration, including the 8 concentration points can be selected
- Different concentration units like ppm, mg/L, mol/L, mmol/L for selection and ionic valence
- Automatic electrode diagnosis shows the calibration points and slopes

➤ Conductivity/TDS/Salinity/Resistivity

- 1-5 point for calibration with automatically identification of calibration solutions
- Selectable cell constant (K=0.1/1/10), reference temperature (20/25°C), TDS factor, linear and pure water compensations, seawater and practical salinity measurement modes.

➤ Dissolved Oxygen features

- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations for accurate readings

➤ Common features

- Automatic temperature compensation ensures accurate readings over the entire range
- Auto hold function freezes stable, final readings for better viewing and recording

- Calibration due alarm reminds user to calibrate the meter regularly
- Setup menu allows setting the number of calibration points, stability criteria and temperature unit, date and time, auto-power off, etc.
- Reset function automatically resumes all settings back to the factory defaults
- Expanded memory stores or recalls up to 500 data sets
- Store data and timed interval readings are transferrable into computer via USB communication interface

Applications:

Multi-parameters are used in research testing, agriculture , quality analysis of water, wastewater treatment, other general liquids across water plants, food and beverages production units, laboratories, and institutes.

Specification:

Model No.	LD-LMPWM-A43
pH Mode	
pH Range	-2.000 to 20.000 pH
pH Accuracy	±0.002 pH
pH Resolution	0.001 / 0.01 / 0.1 pH, selectable
pH Calibration Points	1 to 5 points
pH Buffer Solutions	USA / NIST / DIN / 2 custom buffers
ORP(mV) Mode	
mV Range	-1999.9 to 1999.9 mV
mV Accuracy	±0.2 mV

mV Resolution	0.1 / 1 mV, selectable
mV Calibration Points	1 point
Measurement Modes	Relative / Absolute mV
Ion Concentration	
Ion Concentration Range	0.001 to 19999 ppm, mg/l, mol/l, mmol/l (depending on the range of ISE)
Ion Concentration Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)
Ion Concentration Resolution	0.001, 0.01, 0.1, 1, automatic
Ion Concentration Calibration points	2 to 5 points
Calibration Solutions	0.001 / 0.01 / 0.1 / 1 / 10 / 100 / 1000 / 10000
Conductivity	
Conductivity Range	0 to 20.00, 200.0, 2000 μ S/cm, 20.00, 200.0 mS/cm
Conductivity Accuracy	±0.5% F.S.
Conductivity Resolution	0.001, 0.01, 0.1, 1, automatic
Conductivity Calibration Points	1 to 5 points
Conductivity Solutions	10 μ S / 84 μ S / 1413 μ S / 12.88 mS / 111.8 mS
Conductivity Temperature Coefficient	0.0 to 10.0% / °C
Compensation Mode	Yes (Linear and pure water)
Cell Constant	K=0.1, 1, 10 or Custom
Reference Temperature	20 or 25 °C
TDS Mode	
TDS Range	0 to 10.00, 100.0, 1000 ppm, 10.00, 200.0 ppt
TDS Accuracy	±1% F.S.
TDS Conversion Factor	0.1 to 1.0 (default 0.5)

TDS Resolution	0.01, 0.1, 1, automatic
Salinity Mode	
Salinity Range	0.00 to 80.00 ppt / 0.00 to 42.00 psu
Salinity Resolution	0.01
Salinity Accuracy	±1% F.S.
Resistivity Mode	
Resistivity Range	0.00 to 20.00 MΩ
Resistivity Resolution	0.01
Resistivity Accuracy	±1% F.S.
Dissolved Oxygen Mode	
Dissolved Oxygen Range	0.00 to 20.00 mg/L
Dissolved Oxygen Accuracy	±0.2 mg/L / ±2.0 %
Dissolved Oxygen Resolution	0.01 / 0.1, selectable
Dissolved Oxygen Calibration Points	1 or 2 points
% Saturation Range	0.0 to 200.0 % saturation
Pressure Correction	60.0 to 112.5 kPa / 450 to 850 mmHg, manual
Salinity Correction	0.0 to 50.0 g/L, manual
Temperature	
Temperature Measurement Range	0 to 105 °C / 32 to 221 °F
Temperature Measurement Accuracy	±0.5 °C / ±0.9 °F
Temperature Measurement Resolution	0.1 °C/°F
Temperature Measurement Calibration Points	1 point (calibration range- Reading ±10 °C/°F)
Other Specifications	

Temperature Compensation Range	0 to 100 °C / 32 to 212 °F manual or automatic
Data Hold Function	Manual / Auto-read measurement endpoint
Stability Criteria	Low / High
Calibration Due Alarm	1 to 31 days or off
Output	USB communication interface
Memory	Stores up to 500 data sets
Connector	BNC, 6-pin mini-DIN, 3.5 mm jack socket
Display	Custom LCD (125 × 100 mm)
Power Supply	5V DC
Dimension (L × W × H)	210 × 188 × 60 mm
Weight	1.5 kg