



BENCHTOP MULTI-PARAMETER WATER QUALITY METER LD-LMPWM-A42



Benchtop Multi-parameter Water Quality Meter LD-LMPWM-A42 with large backlit LCD (125 × 100 mm) display, measures conductivity; TDS, salinity, resistivity, DO and temperature of the sample. 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

Conductivity/ TDS/ Salinity/ Resistivity Features

- 1-5 point for calibration with automatically identification of calibration solutions
- Can select cell constant (0.1/1/10) and normalization temperature (20°C or 25°C)
- TDS conversion factor, seawater, practical salinity measurements mode to meet different water quality measurement requirements
- Linear or pure water compensation improves the measurement accuracy

DO Features

- 1-2 points calibration using the air-sealed water & zero oxygen solution
- Manual salinity & barometric pressure compensation for accurate readings

Common Features

- Auto-read feature to lock and read the endpoint.
- Stability indicator to record stable measurement reading.
- Reset feature automatically sets all functions to default condition.
- Automatic interval readings, sends the measurement data to the computer/printer.
- USB interface to transfer stored data.
- Allows transferring data to a computer or importing the data to Excel by free software.

Application

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.

Specifications

Conductivity Mode	
Conductivity Range	0 to 20.00, 200.0, 2000 $\mu\text{S}/\text{cm}$, 20.00, 200.0 mS/cm
Conductivity Accuracy	$\pm 0.5\%$ F.S.
Conductivity Resolution	0.001, 0.01, 0.1, 1, automatic
Conductivity Calibration Points	1 to 5 points
Conductivity Solutions	10 μS / 84 μS / 1413 μS / 12.88 mS / 111.8 mS
Conductivity Temperature Coefficient	0.0 to 10.0% / $^{\circ}\text{C}$
Compensation Mode	Yes
Cell Constant	K=0.1 / 1 / 10 / Custom
Reference Temperature	20 / 25 $^{\circ}\text{C}$
TDS Mode	
TDS Range	0 to 10.00, 100.0, 1000 ppm, 10.00, 200.0 ppt
TDS Accuracy	$\pm 1\%$ F.S.
TDS 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 Accuracy	$\pm 1\%$ F.S.
Salinity Resolution	0.01
Resistivity Mode	
Resistivity Range	0.00 to 20.00 $\text{M}\Omega$
Resistivity Accuracy	$\pm 1\%$ F.S.
Resistivity Resolution	0.01
Dissolved Oxygen Mode	
Dissolved Oxygen Range	0.00 to 20.00 mg/L / 0.0 to 200.0 % saturation
Dissolved Oxygen Accuracy	± 0.2 mg/L / ± 2.0 %

Dissolved Oxygen Resolution	0.01 / 0.1, selectable
Dissolved Oxygen Calibration Point	1 or 2 points
Dissolved Oxygen Pressure Correction	60.0 to 112.5 kPa / 450 to 850 mmHg, manual
Dissolved Oxygen 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
Other Specifications	
Temperature Compensation Range	0 to 100°C / 32 to 212°F
Temperature Compensation Mode	manual or automatic
Data Hold Function	Manual / Auto-read measurement endpoint
Stability Criteria	Low / High
Calibration Due Alarm	1 to 31 days or off
Reset Function	Yes
Output	USB communication interface
Memory	Stores up to 500 data sets
Connector	BNC, 3.5 mm jack socket
Display	Custom LCD (125 × 100 mm)
Power Supply	5V DC power adapter
Dimension (L × W × H)	210 × 188 × 60 mm
Weight	1.5 kg