



BENCHTOP MULTI-PARAMETER WATER QUALITY METER LD-LMPWM-A41

Benchtop Multi-parameter Water Quality Meter LD-LMPWM-A41 with large backlit LCD (125 × 100 mm) display, measures pH, ORP (mV), relative mV, temperature and Ion concentration 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. Sensor of the ORP electrode is with platinum black coating to promote speed of reaction at the electrode.

Features

pH Features

- 1 to 5 points calibration.
- Automatic recognition of USA, NIST and DIN buffers

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 valency
- Automatic recognition of ion selective electrode
- Calibration report with details of calibration standard and slope

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

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
Calibration Solutions	0.001 / 0.01 / 0.1 / 1 / 10 / 100 / 1000 / 10000
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
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