



# Portable Multi-Parameter Water Quality Meter

LMPWM-A1 Series

## Portable Multi-parameter Water Quality Meter- LMPWM-A1 series

Portable Multi-parameter Water Quality Meter LMPWM-A1 series is adapted with different modes for measuring Quality of Water on different parameters such as pH, ORP, Ion, conductivity, TDS, salinity, dissolved oxygen content. Due to its portable design, it is suitable for outdoor measurements i.e. on site water testing, remote area water testing & for research purpose. It is reliable and user friendly.

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### Common Features

- Calibration due reminder informs operator to calibrate the meter regularly
  - Stability indicator displays the status of current measurement
  - Auto hold function freezes stable, final readings for better viewing and recording
  - Manual temperature calibration to rectify the deviations in temperature
  - Automatic temperature compensation for accurate measured value over the entire range
  - Selectable temperature units ( $^{\circ}\text{C}$  or  $^{\circ}\text{F}$ ) for different application requirements
  - Expanded memory stores and recalls up to 500 readings
  - Help message as an operational guide, helps users for quick access to the parameters
  - Reset function automatically resumes all the setting back to factory default options
  - Store data is transferrable into computer via USB communication interface
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### pH mode

- 1-5 points push button calibration to automatically identify pH buffer
  - Convenient to select pH buffer standard (USA/NIST/DIN) or custom
  - Automatic electrode slope display helps operator whether to replace the sensor
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### ORP mode

- 1 point offset calibration to adjust the display value to known standard
- Relative & absolute mV measurements for accurate ORP readings

### \*Ion concentration mode

- 2-5 points calibration, included with 8 concentration points for selection
  - Automatic recognition of ion electrodes, no need to specify type of ion
  - mV measurements mode for checking the performance of current ion electrode
  - Direct reading of concentration measurements to avoid critical conversation and calculations
  - Multiple concentration units to be suitable for various applications
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### Conductivity / TDS / Salinity / Resistivity Mode

- 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
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### \*Dissolved oxygen mode

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

The portable multi-parameter water quality meter is used for quality testing of water on different parameters in research and development labs, water resources and plants in nearby or remote area.

## Specifications

Model no.	LMPWM-A10	LMPWM-A11
pH measurement range	-2.000 to 20.000 pH	
pH accuracy	± 0.002 pH	
pH calibration points	1-5 points	
pH calibration solutions	USA, NIST, DIN or user defined	
ORP measurement range	-1999.9 to 1999.9 mV	
ORP accuracy	±0.2 mV	
ORP calibration points	1 point	
ORP calibration solutions	mV & relative mV	
Ion measurement range	0 to 19999 ppm, mg/L, mol/L	-
Ion accuracy	±0.5% F.S. (monovalent), ± 1% F.S. (divalent)	-
Ion calibration points	2-5 points	-
Ion calibration solutions	0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000 ppm, mol/L, mg/L	-
Conductivity measurement range	0-20.00, 200.0, 2000 µS/cm, 20.00, 200.2 mS/cm	
Conductivity accuracy	±0.5% F.S.	
Conductivity calibration points	1-5 points	
Conductivity calibration solutions	10 µS/cm, 84 µS/cm, 1413 µS/cm, 12.88mS/cm, 111.8mS/cm	
Temperature coefficient	0.0 to 10.0%/°C	
Compensation modes	Linear or pre water	
Cell constant	K=0.1, 1, 10 or user-defined	
Normalization temperature	20°C or 25°C	

## Specifications

Model no.	LMPWM-A10	LMPWM-A11
TDS range	0 to 100 ppt. (max. 200 ppt., depending on factor setting)	
TDS accuracy	±1% F.S.	
TDS factor	0.1-1.0 (default 0.5)	
Salinity range	0 to 100 ppt. (max. 80 ppt.)	
Salinity accuracy	±1% F.S.	
Measurement modes	Seawater or practical salinity	
Resistivity range	0 to 100Ω	
Resistivity accuracy	±1% F.S.	
Resistivity resolution	0.01, 0.1, 1	
DO concentration range	0.00 to 20.00 mg/L	-
DO accuracy	±0.2 mg/L	-
Calibration points	1-2 points	-
Pressure correction	60.0 to 112.5 kPa, 450-850 mmHg	-
Salinity correction	0 to 50 g/L	-
% Saturation of Oxygen	0.0 to 200.0%	-
Accuracy	±2.0%	-
Temperature compensation	0 to 100°C, 32 to 212°F, Manual or Automatic	
Stability conditions	Low or high	
Calibration due	0 to 31 days	
memory	Stores up to 500 data sets	
Output	USB communication interface	
Dimension (L*W*H)	185×88×32 mm	
Weight	300 g	
Power	3*1.5V "AA batteries or DC5V power adapter	

**Note:** \* these measurements modes are only applicable to the model LMPWM-A10

### Standard accessories

- pH, conductivity & dissolved oxygen electrodes
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### Optional accessories

- Temperature probe
- Calibration solutions
- Batteries
- Carrying case