

**labodam**



# Portable Multi-Parameter Water Quality Meter

LMPWM-A2 Series

[www.labodam.com](http://www.labodam.com) // [info@labodam.com](mailto:info@labodam.com)

## Portable multi-parameter Water Quality Meter LMPWM-A2 series

Portable Multi-parameter Water Quality Meter LMPWM-A2 series is adapted with different modes for measuring quality of water on different parameters. This meter can measure pH, ORP, conductivity, TDS, dissolved oxygen content from test sample. It can store & recalls up to 500 sets of data. It is reliable and user friendly, suitable for outdoor measurements.

---

### 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 (°C or °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
- 

### 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
- 

### ORP mode

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

### \*Conductivity / TDS 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
- 

### \*\*Dissolved oxygen mode

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

### Applications

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

---

### Note

\* These modes are applicable to model LMPWM-A20 only

\*\* This mode is applicable to LMPWM-A21 only

## Specifications

Model no.	LMPWM-A20	LMPWM-A21
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	
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	0.0-10.0%/°C	-
Compensation modes	Linear or pre water	-
Cell constant	K=0.1, 1, 10 or user-defined	-
Normalization temperature	20°C or 25°C	-
TDS range	0-100 ppt. (max. 200 ppt., depending on factor setting)	-
TDS accuracy	±1% F.S.	-
TDS factor	0.1-1.0 (default 0.5)	-

Model no.	LMPWM-A20	LMPWM-A21
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%
<b>Temperature compensation</b>		
Temperature compensation	0-100°C, 32-212°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	
Connector	BNC, 6- pin MINI connector	
Display	LCD	
Dimension (L*W*H)	170×85×30 mm	
Weight	300 g	
Power	3*1.5V "AA batteries or DC5V power adapter	

Standard accessories: LMPWM-A20

- pH electrode
  - Conductivity electrodes
  - Temperature probe
  - pH and conductivity calibration solution
  - AA Batteries
  - Plastic Carrying case
- 

Standard accessories: LMPWM-A21

- pH electrodes
  - Dissolved oxygen electrode
  - Conductivity electrode
  - Temperature probe
  - pH and conductivity calibration solution
  - AA Batteries
  - Plastic Carrying case
- 

Optional accessories: LMPWM-A20

- Temperature probe
  - Conductivity standard solutions
  - ORP electrode
- 

Optional accessories: LMPWM-A21

- Temperature probe
- Dissolved oxygen electrode filling solutions
- Dissolved oxygen film cap
- Dissolved oxygen electrode