

# Benchtop Multi-parameter Water Quality Meter

## LMPWM-A3 Series



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Benchtop multi-parameter water quality meter LMPWM-A3 series is comes with different measurement modes for quality and testing of water on different parameters. It measures pH, Conductivity, TDS, Dissolved oxygen, Salinity content from the test sample. It stores and recalls up to 500 sets of data. Calibration due reminder informs operator to calibrate the meter regularly.

### Common Features

- 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

### 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

### Dissolved oxygen mode (Only for LMPWM-A32)

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

### Applications

Used for quality checking of water on different parameters across research, QC labs, water management plants and others production units.

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## Specifications

Model no.	LMPWM-A30	LMPWM-A31	LMPWM-A32
<b>pH Mode</b>			
pH range	-2.00 to 20.00 pH		
pH Accuracy	± 0.002 pH		
pH Resolution	0.1/0.01/0.001 pH, selectable		
pH Calibration Points	1 to 5 Points		
pH Buffer Solutions	USA (pH 4.0/7.00/10.01) or NIST (pH 4.01/6.86/9.18) or DIN buffers		
<b>mV Mode</b>			
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		
<b>Conductivity Mode</b>			
Conductivity Range	0.01 to 20.00, 200.0, 2000 µS/cm, 20.00, 200.0 mS/cm		
Conductivity Accuracy	± 0.5% F.S.		
Conductivity Resolution	0.01/0.1/1		
Conductivity Calibration Points	1 to 5 Points		
Conductivity Solutions	10, 84, 1413 µS/cm, 12.88, 111.8 mS/ cm		
Conductivity Temperature coefficient	0.0 to 10.0 %/°C		
Compensation mode	Linear or Pure Water		
Cell Constant	K=0.1, 1, 10 or Custom		
Reference temperature	20 or 25°C		
<b>TDS Mode</b>			
TDS Range	0 to 10.00, 100.0, 1000 ppm, 10.00, 100 ppt (Max. 200 ppt)	NA	
TDS Accuracy	± 1 % F.S.		
TDS Factor	0.1 to 1.0 (default 0.5)		
<b>Salinity Mode</b>			
Salinity Range	NA	0 to 10 ppt (maximum 80 ppt)	NA
Salinity Accuracy		± 1 % F.S.	
Measurement modes		Seawater or practical salinity	
<b>Resistivity Mode</b>			
Resistivity Range	NA	0 to 100 MΩ	NA
Resistivity Accuracy		± 1 % F.S.	
Resistivity Resolution		0.01, 0.1, 1	
<b>Dissolved Oxygen Mode</b>			
Dissolved Oxygen Range	NA		0.00 to 20.00 mg/ L

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Dissolved Oxygen Accuracy	NA	± 0.2 mg/ L
Dissolved Oxygen Resolution		0.1/ 0.01 mg/ L, selectable
Dissolved Oxygen Calibration Points		1 or 2 Points
% Saturation Range		0.0 to 200.0 % with ± 2 % accuracy
Pressure correction		60 to 112.5 kPa, 450 to 850 mmHg
Salinity correction		0 to 50 g/ L
<b>Other Parameters</b>		
Temperature Range	0 to 105°C, 32 to 221°F	
Temperature Accuracy	± 0.5°C	
Temperature Resolution	0.1°C	
Temperature Calibrations Points	1 Point	
Temperature Compensation Mode	Manual or Automatic	
Data Hold Function	Manual or Automatic Endpoint Detection	
Stability Criteria	Low or High	
Calibration Due Alarm	1 to 31 Days	
Reset Function	Yes	
Memory	Stores Up to 500 data sets	
Output	BNC, 6-pin mini plug	
Connector	USB interface	
Display	LCD	
Power supply	DC5 V, AC 220 V, 50 Hz	
Dimension (L × W × H)	210 × 188 × 60 mm	
Weight	1.5 kg	

# Benchtop Multi-parameter Water Quality Meter

## Standard Accessories LMPWM-A30, LMPWM-A31

Accessories No.	Name
1	pH Electrode (for general liquids)
2	Conductivity Electrode (for general liquids)
3	Temperature probe
4	pH Buffer pouches (pH 4.01/ 7.00/ 10.01)
5	Conductivity standard solutions (10, 84, 1413 $\mu\text{S}/\text{cm}$ , 12.88, 111.8 $\text{mS}/\text{cm}$ )
6	USB cable
7	DC5 V power adapter

## Optional Accessories LMPWM-A30, LMPWM-A31

Accessories No.	Name
1	Temperature probe
2	Calibration Solutions for pH and Conductivity
3	pH electrodes suitable for non-aqueous, high alkalinity, low conductivity, tis buffers, biofuels and others
4	Conductivity electrode suitable for Pure water, general applications, high conductivity liquids
5	DC5V power adapter

## Standard Accessories LMPWM-A32

Accessories No.	Name
1	pH Electrode (for general liquids)
2	Polarographic Dissolved Oxygen Probe
3	Temperature probe
4	pH Buffer pouches (pH 4.01/ 7.00/ 10.01)
5	Dissolved Electrolyte Solutions
6	DO membrane cap
7	USB Cable
8	DC5 V power adapter

## Optional Accessories LMPWM-A32

Accessories No.	Name
1	Temperature probe
2	Calibration Solutions for pH and DO electrolyte
3	pH electrodes suitable for non-aqueous, high alkalinity, low conductivity, tis buffers, biofuels and others
4	Dissolved Oxygen Polarographic Probe
5	DO Membrane Cap
6	DC5V power adapter