LABTRON

Benchtop Multi-parameter Water Quality Meter

LMPWM-A40

www.labtron.com
info@labtron.com

Benchtop Multi-parameter Water Quality Meter LMPWM-A40

Benchtop Multi-parameter Water Quality Meter LMPWM-A40 with 7 inch TFT display measures pH, mV, relative mV, water hardness, and temperature and Ion concentration of the sample. With expanded memory, it stores and recalls up to 1000 readings. Calibration due reminder informs operator to calibrate the meter regularly.

Common features

- Auto read feature to lock and read endpoint measurement
- Stability indicator to record stable measurement reading
- Reset feature automatically sets all function to default condition
- Automatic interval readings, sends the measurement data to the computer/printer
- USB communication interface to transfer store data

pH features

- 1-5 points push button calibration to automatically identify pH buffer
- Convenient to select pH buffer standard (USA/NIST/DIN) or custom calibration solutions
- Automatic temperature compensation, provides accurate readings over entire pH range
- Automatic electrode diagnosis with pH slope, offset display
- Alarm when pH readings are out of range

ORP features

- 1 point offset calibration, can adjust display value to known standard
- Relative and absolute millivolt mode of measurement

Water Hardness feature

- 2 to 5 points calibration with high to low concentration
- Advanced measurements using different measurement units

Ion features

- 2 to 5 points calibration, when 8 concentration points are selected
- Different concentration units like ppm, mg/l, mol/l, mmol/l for selection
- Automatic recognition of ion selective electrode
- Different Ion measurement methods for selection
- Calibration report with details of calibration standard and slope

Applications

Used in multi-parameters based research testing , and quality analysis of water, other general liquids across water plants, food and beverages production units, laboratories, and institutes.

Specification

Model no.	LMPWM-A40
	pH Mode
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
	ORP Mode
mV Range	± 2000 mV
mV Accuracy	± 0.2 mV
mV Resolution	0.1 mV, selectable
mV Calibration Points	1 Point, only for relative mode
	Ion Mode
Ion measurement range	0.01 to 30000 ppm, mg/l, mol/l, mmol/l (refer Range of ion selection)
Ion measurement accuracy	±0.5% F.S (Monovalent), ±1% F.S (Divalent)
Ion measurement resolution	0.001/0.01/0.1/1
Ion measurement calibration points	2 to 5 points
Ion measurement calibration solutions	0.001/0.01/0.1/1/10/100/1000/10000 ppm, mg/L, mol/L
Ion measurement methods	Direct reading, Known addition, Known subtraction, Sample addition, Sample subtraction
	Water Hardness Mode
Water hardness measurement range	0.05-200mmol/L, 0-1120°dH, 0-1404°e, 0-2000°fH, 0-8000mg/L (Ca2+), 0~19999mg/L (CaCO3)
Water hardness measurement accuracy	±1% F.S
Water hardness measurement resolution	0.001/0.01/0.1/1
Water hardness calibration points	2 to 5 points

Water hardness calibration solutions	0.01/0.1/1/10/100 mmol/L
Temperature Mode	
Temperature measurement range	0 to 105°, 32 to 212°F
Temperature measurement accuracy	± 0.5°C, ± 0.9°F
Temperature measurement resolution	0.1°C, 0.1°F
Temperature measurement calibration points	1 point
Common Features	
Temperature compensation range	0 to 100°C, 32 to 221°F
Temperature compensation mode	Manual or Automatic
Data hold	Manual or Automatic end point detection
Stability criteria	Standard or high accuracy
Calibration due alarm	1 to 31 days
Interval readings	10/30/60 seconds, 10/30 minutes or off
Password protection	Yes
Reset function	Yes
Memory	Stores up to 1000 sets data
Output	USB communication interface
Connector	BNC
Display	7 inch TFT LCD display
Power supply	DC 12 V, AC adapter, AC 220 V, 50 Hz
Dimension (L×W×H)	240 × 220 × 80 mm
Weight	1.7 kg

Standard Accessories

Accessories No.	Name
1	pH electrode
2	Temperature probe
3	pH buffer pouches (4.01/7.00/10.01)
4	Ion selective electrode
5	Ion calibration standard solution 100 and 1000 ppm
6	Water hardness electrode
7	Water hardness calibration solutions
8	Electrode holder
9	Power adapter

Optional Accessories

Accessories No.	Name of the Ion electrode	Range
1	NH_4 [Ammonium] Electrode	5×10^{-6} ~1M
2	Br [Bromide] Electrode	5×10^{-6} ~1M
3	Ca [Calcium] Electrode	5×10^{-7} ~1M
4	Cl [Chloride] Electrode	5×10^{-6} ~1M
5	Cn [Cyanide] Electrode	5×10^{-6} ~0.01M
6	F [Fluoride] Electrode	1×10^{-6} M~Saturation
7	NO_3 [Nitrate] Electrode	7×10^{-6} ~1M
8	Ag [Silver] Electrode	1×10^{-7} ~1M
9	Na [Sodium[Electrode	1×10^{-5} ~1M
10	Cd [Cadmium] Electrode	1×10^{-6} ~0.1M
11	Cu [Cupric] Electrode	1×10^{-8} ~0.1M
12	I [Iodide] Electrode	5×10^{-8} ~1M
13	Pb [Lead[Electrode	1×10^{-8} ~0.1M
14	K [Potassium] Electrode	1×10^{-6} ~1M
15	S [Sulphide] Electrode	1×10^{-7} ~1M
16	NH_3 [Ammonia] Electrode	1×10^{-6} ~1M