



**Water Hardness Meter
LMHD60**



E - Catalogue

Water Hardness Meter

LMHD60

SALIENT FEATURES

Water Hardness

- ✦ Multiparameter water hardness meter is equipped with a 7" TFT display.
- ✦ 2 to 5 points calibration from low to high concentrations.
- ✦ Selectable Measurement units (mg/L, mol/L, mmol/L) are used for Water Hardness Measurements.

Ion Concentration Mode:

- ✦ 2 to 5 points calibration, including the selection of 8 concentration points.
- ✦ Electrode management is capable of storing and recalling up to 3 electrode slopes.
- ✦ Selectable Ion Measurement methods (direct reading, known addition, known subtraction, sample addition, sample subtraction) and concentration units (ppm, mg/L, mol/L, mmol/L).

STANDARD ACCESSORIES : Main Instrument, Water Hardness Electrode, Water hardness standard solutions 10, 100 mmol/L, ATC Probe, Electrode Stand, Adaptor, Instruction Manual, Test Certificate,

Water Hardness Meter

HSN Code : 90275090

SPECIFICATIONS

MODEL	LMHD60
Make	LABMAN
Water Hardness Range	0.05 to 200 mmol/L (Concentration)
Water Hardness Accuracy	±1% F.S.
Water Hardness Resolution	0.001, 0.01, 0.1, 1, automatic
Calibration	2 to 5 points
Calibration Points Options	0.01 / 0.1 / 1 / 10 / 100 mmol/L
Ion Range	0.001 - 30000 mmol/L concentration (depends on Ion Selective Electrode range)
Ion Accuracy	±0.5% F.S. ±1% F.S.
Ion Resolution	0.001, 0.01, 0.1, 1, Automatic
Calibration	2 to 5 points
Calibration Points Options	0.001 / 0.01 / 0.1 / 1 / 10 / 100 / 1000 / 10000 mmol/L
Measurement Units	ppm, mg/L, mol/L, mmol/L
Temperature Range	0~105°C
Temp. Accuracy	±0.5°C
Resolution	0.1°C
Temp. Compensation	0~100°C, Manual / Automatic
Stability	Standard or high-accuracy
Calibration Due Alarm	1 to 31 days or off
Password Protection	Yes, 4 digits
Memory	1000 data sets
Connector	BNC
Display	7" (inches) TFT LCD
Power Requirements	DC12V, using AC adaptor, 220VAC/50Hz
Packing Dimensions (L x W x H)	310 × 250 × 190mm
Gross Weight	2kg

* Specifications are subject to change without notice.



Water Hardness Meter

LMHD60

General

- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint
- Interval Readings data can be transferred to a PC or Printer
- High / Low Limit Alarm automatically alerts when reading exceeds the specified range
- Calibration due alarm prompts user to calibrate the meter regularly
- Password protection prevents the unauthorized calibration and settings
- Expanded memory stores or recalls up to 1000 data sets
- Reset function automatically resumes all settings back to the factory default
- Built in real time clock stamps stored data to meet GLP Standards

Thermal Printer optional available for print reports (TP9)

**** Ion Calibration Report ****
Version 3.01
Model No. : LMHD60
Instrument Sr.No : L44160
Date : 12/12/2022
Time : 12:48:15
Ion Model : Ion3
Temperature : 25.0°C

Calibration Points(mg/L)	Slope Detail (mV)
0.1& 1	-30.0
1& 10	-30.0
10& 100	-30.0

Average Slope : -30.0mV
Calibration Date : 12/12/2022
Calibration Time : 12:47:57
Calibration Due : 1day
Signature:
Date:

**** Ion Calibration Report ****
Version 3.01
Model No. : LMHD60
Instrument Sr.No : L44160
Date : 12/12/2022
Time : 12:57:25
Ion Model : WaterHardness
Temperature : 25.0°C

Calibration Points(mmol/L)	Slope Detail (mV)
0.001& 0.01	-30.0
0.01& 0.1	-30.0
0.1& 1	-30.0
1& 10	-29.9

Average Slope : -29.9mV
Calibration Date : 12/12/2022
Calibration Time : 12:56:39
Calibration Due : 1day
Signature:
Date:

***** Ion Data Report *****
Version 3.01
Model No. : LMHD60
Instrument Sr.No : L44160
Date : 27/12/2024
Time : 15:21:09

No	ID	Reading	Temp
01	25/12/2024 15:52:19	0000 1000ppm	25.0°C
02	25/12/2024 15:52:50	0000 100ppm	25.0°C
03	25/12/2024 16:04:11	0000 697ppm	25.0°C
04	25/12/2024 16:04:30	0000 697ppm	25.0°C
05	25/12/2024 16:05:00	0000 249ppm	25.0°C
06	25/12/2024 16:05:29	0000 1000ppm	25.0°C
07	25/12/2024 16:14:13	0000 556m	25.0°C
08	25/12/2024 16:14:31	0000 697e	25.0°C
09	25/12/2024 16:14:46	0000 1001FH	25.0°C
10	25/12/2024 16:15:02	0000 10015mg/L	25.0°C
11	25/12/2024 16:15:16	0000 5568mg/L	25.0°C
12	25/12/2024 16:15:33	0000 4010mg/L	25.0°C
13	25/12/2024 16:15:49	0000 1000mg/L	25.0°C

***** Ion Analysis Report *****
Version 3.01
Model No. : LMHD60
Instrument Sr.No : L44160
Date : 27/12/2024
Time : 15:54:36
Ion Model : WaterHardness
Sample ID : 1981
Ion Result : 0.000mmol/L
mV Result : 0.0mV
Average Slope : 31.1mV
Temperature : 25.0°C (MTC)

Signature:
Date:

***** Ion Analysis Report *****
Version 3.01
Model No. : LMHD60
Instrument Sr.No : L44160
Date : 27/12/2024
Time : 16:02:27
Method : Sample Addition
Sample Vol(ml.) : 10ml.
Standard Vol(ml.) : 50ml.
Standard conc. : 100mg/L
E1 : 157.9mV
E2 : 134.8mV
Sample ID : 1981
Ion Result : 1001mg/L
Average Slope : -58.0mV
Temperature : 25.0°C (MTC)

Signature:
Date:

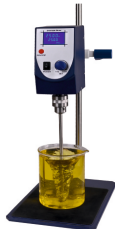
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Version 3.01
Model No. : LMHD60
Instrument Sr.No : L44160
Date : 27/12/2024
Time : 16:02:50
Ion Model : Ion1
Sample ID : 1981
Ion Result : 564mg/L
mV Result : 134.8mV
Average Slope : -60.0mV
Temperature : 25.0°C (MTC)

Signature:
Date:

LABMAN Product Range 2025-26

LMFD61, 62, 63, 64 Lyophilizer Freeze Dryer (-60°C)	LMFD83, 84 Lyophilizer Freeze Dryer (-80°C)	LMRE25 Rotary Evaporator	ADM3 Automatic Density Meter	MSOD6 Microvolume Spectrophotometer
NAE32 Nucleic Acid Extractor	EMR4 Elisa Microplate Reader	GPTC96 Gradient PCR Thermal Cycler	HO30 Hybridization Oven	UVCL254 UV - Crosslinker
TGH12, 24 Tissue Grinder Homogenizer	PBH80T Paddle Blender Homogenizer	TOC2NDir Total Organic Carbon Analyzer	TOC1CD Total Organic Carbon Analyzer	LMDS600, 1200 Microwave Digestion System
HPLC1IS, HPLC2GS High Performance Liquid Chromatography	APT1800 Automatic Potential Titrator	KFT250VC Karl Fischer Titrator	COD1500 COD Analyzer with Digestor	BOD4000 BOD Analyzer
MTVM50 Multi Tube Vortex Mixer	LMVM60D Vortex Mixer	OS20 Orbital Shaker	TRM6 Tube Roller Mixer	DBNE12, 24 Dry Bath Nitrogen Evaporator

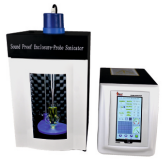
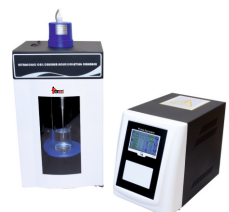
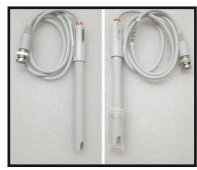
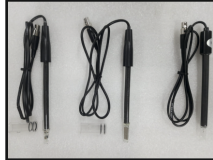
LABMAN Product Range 2025-26

DBI11T  Dry Bath Incubator	DBI15SH, DBI16SC  Dry Bath Incubator	IRS14, 35  Infrared Sterilizer	GGA200  Air Generator	GGA301, 302  Hydrogen Generator
GGN303  Nitrogen Generator	GHA304  Hydrogen Air Generator(2 in 1)	LMVP10  Vacuum Pump	LMVP20  Vacuum Pump	LMCO1  Column Oven
LMIO6  Mini Thermostatic Incubator	GHP400  Graphite Hotplate	LOBMS5  Oil Bath Magnetic Stirrer	LMMS4LC, 20LC  Ceramic Hotplate Magnetic Stirrer	LMMS300  Hotplate Magnetic Stirrer
MMS15S  Multiposition Magnetic Stirrer	MMS12H  Multiposition Magnetic Stirrer	WBMS3  Water Bath Magnetic Stirrer	LMWB2H, 4H, 6H, 8H  Digital Water Bath	HOS20L  Overhead Stirrer
LMHH160  Hand Held Homogenizer	PS1565  Peltier / Sipper System	LUV6HG  PMT Spectrophotometer	LUV2000T, 2100T  Single / Double Beam UV-Vis. Spectrophotometer with 21CFR	LMSPUV SERIES  Double Beam UV-Vis. Spectrophotometer

LABMAN Product Range 2025-26

LMSPUV1200  UV-Vis. Single Beam Spectrophotometer	LMSPV320, 325  Visible Spectrophotometer	ADP100CFR, 95CFR  Automatic Digital Polarimeter with CFR	ADP45, 50  Automatic Digital Polarimeter (±45°)	ADP75, 90  Automatic Digital Polarimeter (±90°)
ADP40  Automatic Digital Polarimeter	LMPM180  Manual Polarimeter	MAR100  Manual ABBE Refractometer	RFM100CFR  Digital Refractometer CFR	RFM950, 970  Digital Refractometer
LMAR1317T  ABBE Refractometer	LMDV300H  Digital Viscometer with Thermosel	LMDV60, 100, 200  Digital Viscometer (L Series)	LMDV400R  Digital Viscometer (R Series)	LMKV2  Krebs Viscometer
LMDV111, 222  Digital Viscometer with SSA	LVA30  Low Viscosity Adaptor	LMCR80F  Visual Colorimeter	LMUC2D  Ultrasonic Cleaner	LMUC3D, 6D, 9D, 12D, 25D  Ultrasonic Cleaner - Degas
LMUC50, 100  Industrial Ultrasonic Cleaner	LMPH15  pH Meter with Printer	LMPH12, LMPH10H  pH Meter	LMPH9  pH Meter - Basic	LMCM20H  Conductivity / TDS Meter

LABMAN Product Range 2025-26

LMCM20H  Conductivity / TDS Meter	LMMP30, 32  Multiparameter (7 in 1 / 9 in 1)	LMION40  Ion Meter	LMDO50  Dissolved Oxygen Meter	LMHD60  Water Hardness Meter
OPH11  Online pH Controller	OCM21  Online Conductivity Controller	LMTB200  Turbidity Meter	RCB1010T, 1020T, 1030T  Refrigerated Circulating Bath	RCB620T  Refrigerated Circulating Bath
RWC320  Recirculating Water Chiller	LMDO4P  Portable DO Meter	LMPH1P  Portable pH / ORP Meter	LMCM2P  Portable Conductivity / TDS Meter	LMTB5P  Portable Turbidity Meter
PRO656, 900, 1200, 1800  Probe Sonicator	PRO660R  Probe Sonicator with Remote	PRO650  Probe Sonicator	LMIF30T, 50T, 100T  Ice Flaker	LMIF200T  Ice Flaker
LMIM15  Ice Maker	LMIM20C  Ice Maker with Crusher	ISE19, 62  Nitrate / Fluoride ISEs	ER SERIES  pH Electrode / DO Electrode	CC1, CC2, CC3  Conductivity Cell