Portable Ion Meter LD-LPIM-A10

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Overview

Portable Ion Meter LD-LPIM-A10 is a versatile multi-parameter instrument for measuring pH, oxidation-reduction potential (ORP), and ion concentration. Its compact design and multiple measurement modes make it suitable for routine laboratory analysis as well as field measurements. The instrument supports a wide selection of ion-selective electrodes for analysing different ionic species.

Features:

- Supports 1–5point pH calibration and 2–5point ion calibration
- Automatic electrode diagnosis displays calibration points, slope, and pH zero offset
- Supports relative and absolute mV measurement for ORP analysis
- Automatic temperature compensation provides consistent measurement performance
- Auto-read function automatically detects and locks the measurement endpoint
- Calibration due alarm reminds users when recalibration is required
- Setup menu provides customizable measurement and operating parameters
- USB interface and DAS software support data transfer, interval recording, and Excel export
- Automatic power-off function helps extend battery operating time

Applications:

Suitable for analysis in environmental monitoring, water and wastewater testing, food and beverage analysis, agriculture, chemical laboratories, pharmaceutical testing, educational laboratories, and general scientific research.

Specifications:

Memory	Up to 500 data sets
Output	USB communication interface
Weight	300 g
Display	Custom LCD, 80 × 60 mm
pH Range	-2.000 to 20.000 pH
ORP Range	-1999.9 to 1999.9 mV
Connectors	BNC, 3.5 mm jack socket
pH Accuracy	±0.002 pH
Battery Life	Approx. 150 hours without backlight
Ion Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)
ORP Accuracy	±0.2 mV
Power Supply	3 × 1.5 V AA batteries or 5 V DC adapter

Hold Function	Manual / Auto-read endpoint
pH Resolution	0.001 / 0.01 / 0.1, selectable
Ion Resolution	0.001 / 0.01 / 0.1 / 1 / automatic
ORP Resolution	0.1 / 1 mV, selectable
pH Calibration	1 to 5 points
Ion Calibration	2 to 5 points
ORP Calibration	1 point
Temperature Range	0 to 105°C / 32 to 221°F
pH Buffer Options	USA / NIST / DIN / 2 custom buffers
Optional Electrodes	NH?, NH??, Br?, Cd²?, Ca²?, Cl?, Cu²?, CN?, F?, I?, Pb²?, NO??, K?, Ag?, S²?, and Na? ion-selective electrodes.
Operating Conditions	0 to 50°C / 32 to 122°F; RH <80%
Temperature Accuracy	±0.5°C / ±0.9°F
Calibration Solutions	0.001 / 0.01 / 0.1 / 1 / 10 / 100 / 1000 / 10000
Ion Measurement Units	ppm / mg/L / mol/L / mmol/L
ORP Measurement Modes	Relative / Absolute mV
Temperature Resolution	0.1°C / °F
Ion Concentration Range	0.001 to 19999 (depending on electrode)
Temperature Calibration	1 point
Dimensions (L × W × H)	170 × 85 × 30 mm
Temperature Compensation	0 to 100°C / 32 to 212°F, manual or automatic