



Portable Multi-parameter Water Quality Meter LD-LMPWM-B10

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Portable Multi-parameter Water Quality Meter LD-LMPWM-B10

Overview

Portable Multi-Parameter Water Quality Meter LD-LMPWM-B10 is a modular water quality monitoring system designed for comprehensive measurement of multiple water quality parameters. It supports up to seven interchangeable probes and features an automatic cleaning wiper for reliable long-term monitoring in environmental, aquaculture and industrial water applications.

Features:

- Modular multi-parameter configuration for flexible monitoring
- Supports up to seven interchangeable sensor probes
- Automatic wiper system helps reduce sensor fouling during extended deployment
- Replaceable digital sensor design simplifies sensor maintenance
- Suitable for continuous and unattended water quality monitoring
- Robust construction for field and submerged applications
- Multiple communication and integration options

Applications:

Suitable for rivers, lakes, reservoirs, groundwater, aquaculture, drinking water sources, environmental monitoring, industrial and process water, and long-term unattended water-quality monitoring.

Specifications:

PH	<table><tr><td>Measuring principle</td><td>Electrode method</td></tr><tr><td>Measuring range</td><td>0-14</td></tr><tr><td>Measuring accuracy</td><td>±0.1</td></tr><tr><td>Resolution</td><td>0.01</td></tr><tr><td>Temperature compensation</td><td>Yes</td></tr><tr><td>Working temperature</td><td>0-50?</td></tr><tr><td>Storage Temperature</td><td>0-60?</td></tr><tr><td>Calibration way</td><td>Two or three point calibration</td></tr></table>	Measuring principle	Electrode method	Measuring range	0-14	Measuring accuracy	±0.1	Resolution	0.01	Temperature compensation	Yes	Working temperature	0-50?	Storage Temperature	0-60?	Calibration way	Two or three point calibration
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NH4+	<table> <tr> <td>Measuring principle</td><td>Composite ion electrode method</td></tr> <tr> <td>Measuring range</td><td>0~10/100/1000mg/L for option</td></tr> <tr> <td>Linearity</td><td>10% or ±0.2mg/L take the bigger</td></tr> <tr> <td>Resolution</td><td>0.01mg/L-0.1mg/L (according to the range)</td></tr> <tr> <td>Temperature compensation</td><td>Yes</td></tr> <tr> <td>Working temperature</td><td>0-50?</td></tr> <tr> <td>Storage Temperature</td><td>-20C~+60?</td></tr> </table>	Measuring principle	Composite ion electrode method	Measuring range	0~10/100/1000mg/L for option	Linearity	10% or ±0.2mg/L take the bigger	Resolution	0.01mg/L-0.1mg/L (according to the range)	Temperature compensation	Yes	Working temperature	0-50?	Storage Temperature	-20C~+60?		
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Power	DC 12~24V																
Weight	2.5 kg																
Dimension	78mm x 548mm (length)																
Turbidity	<table> <tr> <td>Measuring principle</td><td>Scattered light measurement/Optical</td></tr> <tr> <td>Measuring range</td><td>0.01-4000NTU</td></tr> <tr> <td>Measuring accuracy</td><td>0-10NTU: ±0.1NTU 10-100NTU: reading value±2% or ±0.1NTU the bigger one; 100-4000NTU: reading value±5%</td></tr> <tr> <td>Resolution</td><td>0-10NTU: 0.01NTU 10-100NTU: 0.1NTU 100-4000NTU: 1NTU</td></tr> <tr> <td>Temperature compensation</td><td>Yes</td></tr> <tr> <td>Working temperature</td><td>0-50℃</td></tr> <tr> <td>Storage Temperature</td><td>-20℃~-60℃</td></tr> <tr> <td>Calibration way</td><td>One or two point calibration</td></tr> </table>	Measuring principle	Scattered light measurement/Optical	Measuring range	0.01-4000NTU	Measuring accuracy	0-10NTU: ±0.1NTU 10-100NTU: reading value±2% or ±0.1NTU the bigger one; 100-4000NTU: reading value±5%	Resolution	0-10NTU: 0.01NTU 10-100NTU: 0.1NTU 100-4000NTU: 1NTU	Temperature compensation	Yes	Working temperature	0-50℃	Storage Temperature	-20℃~-60℃	Calibration way	One or two point calibration
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Chlorophyll	<table> <tr> <td>Measuring principle</td><td>Fluorescence method/Optical</td></tr> <tr> <td>Measuring range</td><td>0-400ug/L or 0~100RFU</td></tr> <tr> <td>Linearity</td><td>R²>0.999</td></tr> <tr> <td>Resolution</td><td>0.01ug/L</td></tr> <tr> <td>Working temperature</td><td>0-50℃</td></tr> <tr> <td>Storage Temperature</td><td>-20℃~+60℃</td></tr> <tr> <td>Calibration way</td><td>One or two point calibration</td></tr> </table>	Measuring principle	Fluorescence method/Optical	Measuring range	0-400ug/L or 0~100RFU	Linearity	R ² >0.999	Resolution	0.01ug/L	Working temperature	0-50℃	Storage Temperature	-20℃~+60℃	Calibration way	One or two point calibration		
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Calibration way	One or two point calibration																
Data Output	RS 485. Modbus; Bluetooth(Optional)																
TEMPERATURE	<table> <tr> <td>Measuring principle</td><td>Thermistor</td></tr> </table>	Measuring principle	Thermistor														
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	<table> <tr> <td>method</td><td>Measuring range</td></tr> <tr> <td></td><td>0-50?</td></tr> <tr> <td></td><td>Measuring accuracy</td></tr> <tr> <td></td><td>±0.2?</td></tr> <tr> <td></td><td>Resolution</td></tr> <tr> <td></td><td>0.1?</td></tr> <tr> <td></td><td>Working temperature</td></tr> <tr> <td></td><td>-5C~+50?</td></tr> <tr> <td></td><td>Storage Temperature</td></tr> <tr> <td></td><td>-20C~+80?</td></tr> <tr> <td></td><td>Calibration way</td></tr> <tr> <td></td><td>One point calibration</td></tr> </table>	method	Measuring range		0-50?		Measuring accuracy		±0.2?		Resolution		0.1?		Working temperature		-5C~+50?		Storage Temperature		-20C~+80?		Calibration way		One point calibration
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CONDUCTIVITY	<table> <tr> <td>Measuring principle</td><td>Four-electrode method</td></tr> <tr> <td>Measuring range</td><td>0-200mS/cm</td></tr> <tr> <td>Measuring accuracy</td><td>0-100: reading value±0.5% 100-200: reading value±1%</td></tr> <tr> <td>Resolution</td><td>1?S/cm-100?S/cm (according to the range)</td></tr> <tr> <td>Temperature compensation</td><td>Yes</td></tr> <tr> <td>Working temperature</td><td>0-50?</td></tr> <tr> <td>Storage Temperature</td><td>-20C~+60?</td></tr> </table>	Measuring principle	Four-electrode method	Measuring range	0-200mS/cm	Measuring accuracy	0-100: reading value±0.5% 100-200: reading value±1%	Resolution	1?S/cm-100?S/cm (according to the range)	Temperature compensation	Yes	Working temperature	0-50?	Storage Temperature	-20C~+60?										
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Cable Length	5m standard cable, other length can be optional;																								
Main Material	POM+316 Stainless Steel O ring: viton ring+ rubber ring Cable: PVC																								
Pressure Range	Sensor Probe ?0.6Mpa; Sensor Body ?2Mpa																								
Waterproof Rate	IP68																								
Blue-Green Algae	<table> <tr> <td>Measuring principle</td><td>Fluorescence method/Optical</td></tr> <tr> <td>Measuring range</td><td>0-100ug/L or 0~100RFU</td></tr> <tr> <td>Linearity</td><td>R²>0.999</td></tr> <tr> <td>Resolution</td><td>0.01ug/L</td></tr> <tr> <td>Working temperature</td><td>0-50?</td></tr> <tr> <td>Storage Temperature</td><td>-20C~+60?</td></tr> <tr> <td>Calibration way</td><td>One or two point calibration</td></tr> </table>	Measuring principle	Fluorescence method/Optical	Measuring range	0-100ug/L or 0~100RFU	Linearity	R ² >0.999	Resolution	0.01ug/L	Working temperature	0-50?	Storage Temperature	-20C~+60?	Calibration way	One or two point calibration										
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Dissolved Oxygen	<table> <tr> <td>Measuring principle</td><td>Fluorescence method/Optical</td></tr> <tr> <td>Measuring range</td><td>0-200% saturability 0-20mg/L</td></tr> <tr> <td>Measuring accuracy</td><td>0-100%: <math>\pm 1\%</math>100-200%: <math>\pm 1.5\%</math></td></tr> <tr> <td>Resolution</td><td>0.001mg/L-0.01mg/L (according to the range)</td></tr> <tr> <td>Temperature compensation</td><td>Yes</td></tr> <tr> <td>Working temperature</td><td>0-50?</td></tr> <tr> <td>Storage Temperature</td><td>-20C~+60?</td></tr> <tr> <td>Calibration way</td><td>One or two point calibration</td></tr> </table>	Measuring principle	Fluorescence method/Optical	Measuring range	0-200% saturability 0-20mg/L	Measuring accuracy	0-100%: $\pm 1\%$100-200%: $\pm 1.5\%$	Resolution	0.001mg/L-0.01mg/L (according to the range)	Temperature compensation	Yes	Working temperature	0-50?	Storage Temperature	-20C~+60?	Calibration way	One or two point calibration
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Temperature compensation	Yes																
Working temperature	0-50?																
Storage Temperature	-20C~+60?																
Calibration way	One or two point calibration																
Guarantee Period	Sensor Body 12 months; pH/ORP probe 12 months; Ion sensor: 6 months; DO fluorance cap 6 months.																
Internal Storage	8M (Optional)																
Storage Temperature	-20~+60??pH/ORP storage temperature 0?60??																
Working Temperature	0~50?																
Measuring parameters	Standard: Temperature, Conductivity, pH, ORP, Turbidity, Dissolved Oxygen Optional: Depth, Chlorophyll, Blue-green Algae, COD, fDOM, Salinity, TDS, NH4+, NO3-, K+, Fu- and etc.																