

Multi Parameter Water Quality Analyzer

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Multi parameter water quality analyzer LMWA-A10 with portable suitcase design, directly measures turbidity, chemical oxygen demand, ammonia and total phosphorous content of water sample, without any power supply. Incorporated with a 15 samples intelligent reactor, it meets the demand of user for testing large quantities of water samples. Its rated power of reactor is adjusted, according to the quantity of load.

Features:

- Portable design
- Automatic switching for multi-parameters measurement
- 15 samples intelligent reactor
- Pre storage for 113 standard curves
- Pre storage for 53 multi-point regression filling curves
- Intelligent data analysis
- Includes colorimetric, digestive system, timing system functions
- Built-in mini printer
- USB data interface
- User friendly operation

Applications:

Used in on-field water quality analysis based on COD, ammonia nitrogen, total phosphorous and turbidity parameters.

Specifications:

Model no.	LD-LMWA-A10
COD	<div id=
Display	LCD (320 × 240)
Dimension	550 × 300 × 250 mm
Interface	USB
Turbidity	<div id=
Gross Weight	21 kg
Power supply	AC 200 V
Storage data	12000
No. of curves	166
Ammonia nitrogen	<div id=
COD repeatability	≤ ± 5 %
Light source life	100000 hours
Optical stability	≤ 0.001 A/ 10 min

Total phosphorous	<div id=
COD measurement time	20 minutes
Turbidity repeatability	$\leq \pm 5 \%$
Anti-chlorine interference	(Cl) < 1000 mg/ L No effect
COD reactor digestion time	10 min
Turbidity measurement time	1 minute
COD minimum detection limit	0.1 mg/ L
Ammonia nitrogen repeatability	$\leq \pm 5 \%$
Turbidity measurement accuracy	$\leq \pm 5 \%$
Total phosphorous repeatability	$\leq \pm 5 \%$
Ammonia nitrogen measurement time	10 to 15 minutes
COD reactor digestion temperature	$165 \pm 0.5^{\circ}\text{C}$
COD reactor time setting switches	3 pcs
Total phosphorous measurement time	35 to 50 minutes
Turbidity minimum detection limit	0.1 NTU
Ammonia nitrogen measurement accuracy	$\leq \pm 10 \%$
Ammonia nitrogen minimum detection limit	0.01 mg/ L
Total phosphorous reactor digestion time	30 min
Total phosphorous minimum detection limit	0.001 mg/ L
Consumables for colorimetric COD measurement	Colorimetric tubes and Cuvette
Ammonia nitrogen reactor time setting switches	3 pcs
Total phosphorous reactor digestion temperature	$120 \pm 0.5^{\circ}\text{C}$
Total phosphorous reactor time setting switches	3 pcs

Consumables for colorimetric turbidity measurement	Colorimetric Cuvette
Total phosphorous total phosphorous measurement accuracy	$\leq \pm 5 \%$
Consumables for colorimetric ammonia nitrogen measurement	Colorimetric tubes and Cuvette
Consumables for colorimetric total phosphorous measurement	Colorimetric tubes and Cuvette

Multi parameter water quality analyzer LMWA-A11 is a high quality analyzer with benchtop design, simultaneously measures turbidity, chemical oxygen demand, ammonia and total phosphorous content of water sample. The aviation insulation protective layer present above digestion hole, effectively prevents scalds. The imported heat resistant protective cover ensures the safety and reliability of the experiment.

Features:

- Benchtop design
- High definition LCD screen with detailed user interface
- Includes colorimetric, digestive system, timing system functions
- Intelligent data analysis
- USB infrared data communication
- Built-in mini printer
- High accuracy measurement readings
- User-friendly operation

Applications:

Used in water quality testing based on COD, ammonia nitrogen, total phosphorous and turbidity parameters across plants, laboratories, and industries.

Specifications:

Model no.	LD-LMWA-A11
COD	<div id=
Display	LCD (320 × 240)
Dimension	450 × 300 × 250 mm
Interface	USB
Turbidity	<div id=
Gross Weight	18 kg
Power supply	AC 200 V
Storage data	12000
No. of curves	56
Ammonia nitrogen	<div id=
COD repeatability	≤ ± 5 %
Light source life	100000 hours
Optical stability	≤ 0.001 A/ 10 min
Total phosphorous	<div id=

COD measurement time	20 minutes
Turbidity repeatability	$\leq \pm 5 \%$
Anti-chlorine interference	(Cl) < 1000 mg/ L No effect
COD reactor digestion time	10 min
Turbidity measurement time	1 minute
COD minimum detection limit	0.1 mg/ L
Ammonia nitrogen repeatability	$\leq \pm 5 \%$
Turbidity measurement accuracy	$\leq \pm 5 \%$
Total phosphorous repeatability	$\leq \pm 5 \%$
Ammonia nitrogen measurement time	10 to 15 minutes
COD reactor digestion temperature	$165 \pm 0.5^{\circ}\text{C}$
COD reactor time setting switches	3 pcs
Total phosphorous measurement time	35 to 50 minutes
Turbidity minimum detection limit	0.1 NTU
Ammonia nitrogen measurement accuracy	$\leq \pm 10 \%$
Ammonia nitrogen minimum detection limit	0.01 mg/ L
Total phosphorous reactor digestion time	30 min
Processing sample number per batch	12 pcs
Total phosphorous minimum detection limit	0.001 mg/ L
Consumables for colorimetric COD measurement	Colorimetric tubes and Cuvette
Ammonia nitrogen reactor time setting switches	3 pcs
Total phosphorous reactor digestion temperature	$120 \pm 0.5^{\circ}\text{C}$

Total phosphorous reactor time setting switches	3 pcs
Consumables for colorimetric turbidity measurement	Colorimetric Cuvette
Total phosphorous total phosphorous measurement accuracy	$\leq \pm 5 \%$
Consumables for colorimetric ammonia nitrogen measurement	Colorimetric tubes and Cuvette
Consumables for colorimetric total phosphorous measurement	Colorimetric tubes and Cuvette

Benchtop Multiparameter Water Quality Meter is an advanced optical path structure design. An imported optical component is used for the detectors. Through the use of two colorimetric techniques - 360° rotation and automatic tank back-and-forth, it significantly increases the detection efficiency of water samples while also boosting data stability and accuracy. Accurate temperature control and menu-based operation are features accompanying full-touch screen digestion device, which is outfitted with an 8-inch IPS high-definition touch color screen and a menu-style interface design running the AOS operating system.

Features:

- 8-inch color touchscreen for intuitive operation and direct data reading
- Imported, stable, and reliable light source with automatic on/off to extend lifespan
- Supports 360° rotating colorimetric tube testing and 4-cell cuvette automatic colorimetric
- Compatible with all routine water quality analysis projects and allows customizable expansion
- Classified standard curves for easy reference, with user-defined editing and one-key calibration
- Real-time data editing, saving, analysis and sharing detection data can be achieved for convenient organization of test results
- Automatic calibration and preheating at startup to ensure accuracy
- Concave blazed holographic grating for fast, precise wavelength switching
- Supports photometric measurement and full-wavelength scanning
- Remote software upgrade capability
- Efficient cooling with a silent, high-volume fan
- Specialized reagents and accessories for simplified operation

Applications:

LD-LMWA-A12 device is widely used in laboratory water quality analysis in a variety of industries, including steel production, education, healthcare, environmental monitoring, and municipalities. Universities, research facilities, sewage treatment facilities, independent testing companies, and engineering corporations all depend on it. It is also essential to the food and dairy sectors, metallurgy, printing and dyeing, petrochemicals, electroplating, and biopharmaceuticals.

Specifications:

Model no.	LD-LMWA-A12
Data storage	5 million
Repeatability	0.2%T
Digestion time	10/30 minutes
Resolving power	0.001
Wavelength Range	190-1100 nm

Standard Parameters	<table><tr><th>Test</th><th>Measuring range</th></tr><tr><td>COD</td><td>5-12000 mg/L</td></tr><tr><td>Ammonia nitrogen</td><td>0.01-200 mg/L</td></tr><tr><td>Total phosphorus</td><td>0.001-16 mg/L</td></tr><tr><td>Total nitrogen</td><td>0.01-100 mg/L</td></tr></table>	Test	Measuring range	COD	5-12000 mg/L	Ammonia nitrogen	0.01-200 mg/L	Total phosphorus	0.001-16 mg/L	Total nitrogen	0.01-100 mg/L
Test	Measuring range										
COD	5-12000 mg/L										
Ammonia nitrogen	0.01-200 mg/L										
Total phosphorus	0.001-16 mg/L										
Total nitrogen	0.01-100 mg/L										
Measurement accuracy	≤± 5%										
Dissolving temperature	165/123 ± 0.5℃										
Optical path stability	≤ ±0.002 Abs/h										
Batch processing sample	24 pieces/batch										
Anti-chlorine interference	{cl-}<1200 mg/l□{cl-}<4000 mg/l										

The LD-LMWA-B10 Portable Multiparameter Water Quality Meter is designed for rapid and reliable analysis of multiple water quality parameters in a single measurement. Featuring an advanced electrochemical detection system, it provides accurate, reagent-free testing for field and laboratory applications. Its portable design, intuitive interface, and integrated data management capabilities make it an ideal solution for comprehensive water quality monitoring.

Features:

- Simultaneously measures COD, ammonia nitrogen, pH, dissolved oxygen (DO), conductivity, TDS, chlorophyll, blue-green algae, ORP, and water temperature
- 8-inch full-color touchscreen with an intuitive interface for convenient operation
- Fully digital electrodes ensure rapid response and high measurement accuracy
- Reagent-free electrochemical measurement for environmentally friendly operation
- USB interface with remote firmware upgrade support
- Built-in thermal printer and storage capacity for up to 100,000 test records
- IP68-rated aviation connectors provide reliable waterproof performance
- Rechargeable lithium battery with real-time battery level and voltage monitoring

Applications:

It is widely used in surface water monitoring, municipal sewage treatment, industrial wastewater analysis, environmental protection, emergency water quality inspections, aquaculture, and research laboratories for comprehensive water quality assessment.

Specifications:

Model no.	LD-LMWA-B10
pH	Measuring Range : 0-14; Response Time : 15 s; Accuracy : ±0.1 pH
COD	Measuring Range : 0-300 mg/L; Accuracy : ±10%
ORP	Measuring Range : −1999 to +1999 mV; Response Time : 15 s; Accuracy : ±1 mV
TDS	Measuring Range : 0-20,000 mg/L; Accuracy : ±5%
Turbidity	Measuring Range : 0-4000 NTU; Response Time : 20 s; Accuracy : <8%
Net Weight	Main Unit: 6.5 kg; Accessory Box: 3.1 kg
Chlorophyll	Measuring Range : 0-50.0/500.0 µg/L; 0-200.0/2000.0 Kcells/mL; Accuracy : <8%
Temperature	Measuring Range : 0-50°C; Accuracy : ±0.5°C

Conductivity	Measuring Range : 0-2,000,000 $\mu\text{S/cm}$; Response Time : 15 s; Accuracy : $\pm 1\%$
Power Supply	DC 24 V $\pm 10\%$, 20 W Max
Input Voltage	DC 12 V, 10 W Max
Ammonia Nitrogen	Measuring Range : 0.1-200 mg/L; Response Time : 15 s; Accuracy : $\pm 10\%$
Blue-Green Algae	Measuring Range : 0-200.0/2000.0 Kcells/mL; Accuracy : $< 8\%$
Relative Humidity	10 - 90% RH
Measuring Parameters	COD, Ammonia Nitrogen, pH, DO, Temperature, Conductivity, TDS, Chlorophyll, Blue-Green Algae, ORP
Dissolved Oxygen (DO)	Measuring Range : 0-20 mg/L; Response Time : 45 s; Accuracy : ± 0.3 mg/L
Dimensions (W $\times$ D $\times$ H)	460 $\times$ 370 $\times$ 200 mm