

labodam



# Multi Parameter Water Quality Analyzer

LMWA-A10, LMWA-A11

## Multi Parameter Water Quality Analyzer LMWA-A10

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.

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### 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
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### Applications

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

## Specifications

Model no.	LMWA-A10
<b>COD</b>	
COD determination range	2 to 10000 mg/ L
COD measurement accuracy	COD < 50 mg/ L, $\leq \pm 10 \%$ and COD > 50 mg/ L, $\leq \pm 5 \%$
COD minimum detection limit	0.1 mg/ L
COD measurement time	20 minutes
COD repeatability	$\leq \pm 5 \%$
Consumables for colorimetric COD measurement	Colorimetric tubes and Cuvette
COD reactor digestion temperature	$165 \pm 0.5 \text{ }^{\circ}\text{C}$
COD reactor digestion time	10 min
COD reactor time setting switches	3 pcs
Anti-chlorine interference	(Cl) < 1000 mg/ L, No effect
<b>Ammonia nitrogen</b>	
Ammonia nitrogen determination range	0.02 to 60 mg/ L
Ammonia nitrogen measurement accuracy	$\leq \pm 10 \%$
Ammonia nitrogen minimum detection limit	0.01 mg/ L
Ammonia nitrogen measurement time	10 to 15 minutes
Ammonia nitrogen repeatability	$\leq \pm 5 \%$
Consumables for colorimetric ammonia nitrogen measurement	Colorimetric tubes and Cuvette
Ammonia nitrogen reactor time setting switches	3 pcs

<b>Total phosphorous</b>	
Total phosphorous determination range	0.002 to 20 mg/ L
Total phosphorous total phosphorous measurement accuracy	$\leq \pm 5 \%$
Total phosphorous minimum detection limit	0.001 mg/ L
Total phosphorous measurement time	35 to 50 minutes
Total phosphorous repeatability	$\leq \pm 5 \%$
Consumables for colorimetric total phosphorous measurement	Colorimetric tubes and Cuvette
Total phosphorous reactor digestion temperature	$120 \pm 0.5 \text{ }^{\circ}\text{C}$
Total phosphorous reactor digestion time	30 min
Total phosphorous reactor time setting switches	3 pcs
<b>Turbidity</b>	
Turbidity determination range	0.5 to 400 NTU
Turbidity measurement accuracy	$\leq \pm 5 \%$
Turbidity minimum detection limit	0.1 NTU
Turbidity measurement time	1 minute
Turbidity repeatability	$\leq \pm 5 \%$
Consumables for colorimetric turbidity measurement	Colorimetric Cuvette
Light source life	100000 hours
Optical stability	$\leq 0.001 \text{ A/ } 10 \text{ min}$
No. of curves	166
Storage data	12000
Display	LCD (320 × 240)

Interface	USB
Power supply	AC 200 V
Dimension (L*W*H)	550 × 300 × 250 mm
Gross weight	21 kg

### Standard accessories

Accessories no.	Name
1	Protective cover
2	Cooling rack
3	Cuvette rack
4	Tube rack
5	Reagent proportional
6	Printing paper

## Multi Parameter Water Quality Analyzer LMWA-A11

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.

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### 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
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### Applications

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

## Specifications

Model no.	LMWA-A11
<b>COD</b>	
COD determination range	5 to 5000 mg/ L
COD measurement accuracy	COD < 50 mg/ L, $\leq \pm 10 \%$ and COD > 50 mg/ L, $\leq \pm 5 \%$
COD minimum detection limit	0.1 mg/ L
COD measurement time	20 minutes
COD repeatability	$\leq \pm 5 \%$
Processing sample number per batch	12 pcs
Consumables for colorimetric COD measurement	Colorimetric tubes and Cuvette
COD reactor digestion temperature	$165 \pm 0.5 \text{ }^\circ\text{C}$
COD reactor digestion time	10 min
COD reactor time setting switches	3 pcs
Anti-chlorine interference	(Cl) < 1000 mg/ L No effect
<b>Ammonia nitrogen</b>	
Ammonia nitrogen determination range	0.02 to 30 mg/ L
Ammonia nitrogen measurement accuracy	$\leq \pm 10 \%$
Ammonia nitrogen minimum detection limit	0.01 mg/ L
Ammonia nitrogen measurement time	10 to 15 minutes
Ammonia nitrogen repeatability	$\leq \pm 5 \%$
Processing sample number per batch	20 pcs
Consumables for colorimetric ammonia nitrogen measurement	Colorimetric tubes and Cuvette
Ammonia nitrogen reactor time setting switches	3 pcs

<b>Total phosphorous</b>	
Total phosphorous determination range	0.002 to 10 mg/ L
Total phosphorous total phosphorous measurement accuracy	$\leq \pm 5 \%$
Total phosphorous minimum detection limit	0.001 mg/ L
Total phosphorous measurement time	35 to 50 minutes
Total phosphorous repeatability	$\leq \pm 5 \%$
Processing sample number per batch	12 pcs
Consumables for colorimetric total phosphorous measurement	Colorimetric tubes and Cuvette
Total phosphorous reactor digestion temperature	$120 \pm 0.5 \text{ }^{\circ}\text{C}$
Total phosphorous reactor digestion time	30 min
Total phosphorous reactor time setting switches	3 pcs
<b>Turbidity</b>	
Turbidity determination range	0.5 to 400 NTU
Turbidity measurement accuracy	$\leq \pm 5 \%$
Turbidity minimum detection limit	0.1 NTU
Turbidity measurement time	1 minute
Turbidity repeatability	$\leq \pm 5 \%$
Consumables for colorimetric turbidity measurement	Colorimetric Cuvette
Light source life	100000 hours
Optical stability	$\leq 0.001 \text{ A/ } 10 \text{ min}$
No. of curves	56
Storage data	12000



Display	LCD (320 × 240)
Interface	USB
Power supply	AC 200 V
Dimension (L*W*H)	450 × 300 × 250 mm
Gross weight	18 kg

### Standard accessories

Accessories no.	Name
1	Protective cover
2	Cooling rack
3	Cuvette rack
4	Tube rack
5	Reagent proportional
6	Printing paper