

WATER QUALITY ANALYZER / DATA SHEET

SW11-03

Multi-Parameter Water Quality Analyzer

Portable spectrophotometric analyzer for multi-parameter water-quality testing with selectable wavelengths of 420 nm, 470 nm, 520 nm and 620 nm.

Overview

SW11-03 is a compact and portable water-quality instrument based on spectrophotometry. It supports multiple parameter detection at 420 nm, 470 nm, 520 nm and 620 nm. The method is simple, quick and sensitive. An imported sensor and advanced optical system extend the colorimeter measuring range and can reduce the time required for sample dilution. Test items can be freely matched according to customer requirements.



420 / 470 / 520 / 620 nm WAVELENGTHS	0–3 Abs ABSORBANCE RANGE	170 × 72 × 44 mm SIZE	10,000 pcs STORAGE DATA
---	-----------------------------	--------------------------	----------------------------

FEATURES & APPLICATIONS

Key Features & Applications

Key Features

- Waterproof-sealing design.
- Large data storage capacity.
- Light-source advantage for spectrophotometric testing.
- Strong development practicality for field and laboratory use.
- Multiple power-supply methods.

Application Areas

- Chemical engineering.
- Water treatment plants.
- Water-quality monitoring stations.

MEASUREMENT PRINCIPLE

Spectrophotometric Measurement

The analyzer uses spectrophotometry to determine water-quality parameters at selectable wavelengths of 420 nm, 470 nm, 520 nm and 620 nm. The source document describes this method as simple, quick and sensitive; no additional measurement principle is inferred here.

SYSTEM DATA

Technical Specifications

Parameter	Specification
Measurement Method	Spectrophotometry
Measurement Wavelengths	420 nm / 470 nm / 520 nm / 620 nm
Absorbance Detection Range	0–3 Abs

Parameter	Specification
Optical Path Stability	<±0.005 Abs / 30 min
Absorbance Resolution	0.001 Abs
Enclosure Protection Class	IP65
Operating Temperature	0–50 °C
Operation Repeatability	<±0.01 Abs
Light Source Life	100,000 hours
Lens Lifetime	5 years
Rated Power	0.3 W
Size	170 × 72 × 44 mm
Storage Capacity	10,000 pcs
Weight	277 g

TEST ITEMS

Test Items & Measuring Ranges

Test Item	Measuring Range (mg/L)	Test Item	Measuring Range (mg/L)	Test Item	Measuring Range (mg/L)
Ammonia Nitrogen (salicylic Acid Method)	0–2.5 / 0–50	Residual Chlorine	0–3 / 0–12	Sulphite	0–50 / 0–300
Ammonia Nitrogen (Nessler's Reagent Method)	0–5 / 0–50	Total Chlorine	0–3 / 0–12	Sulphate	0–200
Total Chromium	0–2	Total Alkalinity	0–300 / 0–3000	Ozone	0–2.5
Hexavalent Chromium	0–2	Total Hardness	0–500 / 0–20	Fluoride	0–2
Total Copper	0–2	Total Zinc	0–5	Cyanide	0–0.5
Copper	0–2	Zinc	0–5	Phosphate	0–2
Total Nickel	0–5	Total Cadmium	0–1	Nitrate	0–40
Nickel	0–5	Cadmium	0–1	Nitrite	0–0.3
Total Iron	0–3	Cyanuric Acid	0–160	Urea	0–20
Ferrous Iron	0–3	Formaldehyde	0–1.5	Sulfide	0–1
Total Manganese	0–20	Volatile Phenol	0–5	Chloride	0–500
Manganese	0–20	Bromine	0–4.5	Aniline	0–2
Chlorine Dioxide	0–5	Lead	0–6	Silicon	0–20
Aluminum	0–0.5	—	—	pH	6.5–9.0 pH
Dissolved Oxygen	0–20	—	—	Cobalt	0–2
Color	0–500 Pt-Co	—	—	Iodine	0–7

Note: Specific testing items, measuring ranges and detection limits are subject to the actual supply situation.

CONTACT / SUPPORT

SpeSense Technologies Inc.

Add: No. 9 Yuhe Road, Guitang Subdistrict, Yuhua District, Changsha City

Tel: +86-15386478166

Email: info@spesense.com

Web: www.spesense.com



WhatsApp / WeChat