Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE · TECHNICAL SPECIFICATION

COLORIMETERS CATEGORY | REQUEST QUOTE | LABORATORY EQUIPMENT

WATER QUALITY KNOWLEDGE

# VIKING202S

## Portable Colorimeter · Water Quality Analysis · Platinum-Cobalt Colorimetry

**VIKING202S Portable Colorimeter** is a compact photometric instrument for water quality analysis in laboratory and field workflows. It supports direct concentration reading, flexible curve setup, data storage and Micro USB output for routine colorimetric testing.

PORTABLE COLORIMETER | 20–500 PCU | ±5% ACCURACY | 0.01 PCU | 3" COLOR DISPLAY | 7-POINT CALIBRATION | 5000 RECORDS | MICRO USB | IP54

Document type: **Technical Specification Sheet**
Product family: **Portable Colorimeter / Water Quality Instrument**
Model: **VIKING202S**
Expected technical specification path: **colo.si/wp-content/images/TechSpec/WaterQualityP/VIKING202S.html**
Format: **A4 landscape · COLO.Science TechSpec v2.4 with navigation links**


**VIKING202S · portable colorimeter for laboratory and field water quality analysis**

MODEL
VIKING202S

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# VIKING202S · technical specification

Portable colorimeter for colorimetric water quality analysis

RANGE 20–500 PCU | RESOLUTION 0.01 PCU | ACCURACY ±5% | 5000 RECORDS | RECHARGEABLE — Compact colorimetric analysis for lab and field workflows

## Product Overview

### Application profile

**Water quality:** routine colorimetric analysis for environmental monitoring, drinking water checks and industrial water testing.

**Field and laboratory use:** compact body, integrated display, rechargeable power and IP54 protection support mobile and bench operation.

**Method flexibility:** built-in standard curves and user-defined custom curves support different colorimetric workflows.

**Data handling:** internal storage for up to 5000 test records with Micro USB output for data transfer.

### Design and handling advantage

**Direct concentration reading:** simplified operation without manual conversion steps.

**3” color screen:** clear user interface for method selection and result review.

**Calibration control:** up to 7-point calibration with factory calibration restore function.

**Portable durability:** IP54 rating for practical use outside controlled laboratory environments.

### Key features

**Measurement principle:** photometric colorimetry based on Beer-Lambert law.

**Color measurement:** platinum-cobalt colorimetry, 20–500 PCU range.

**Optical system:** high-precision optical filter system for stable and repeatable readings.

**Curve functions:** built-in standard curve and support for custom curve setup.

**Power and output:** rechargeable battery operation and Micro USB communication.

### Core technical summary

| Parameter | Specification |
|---|---|
| Model | VIKING202S |
| Instrument type | Portable colorimeter |
| Method | Platinum-cobalt colorimetry |
| Range | 20–500 PCU |
| Accuracy | ±5% |
| Resolution | 0.01 PCU |
| Display | 3” color display |
| Data memory | Up to 5000 records |
| Protection | IP54 |

RANGE
**20–500 PCU**

CALIBRATION
**Up to 7 points**

DATA MEMORY
**5000 records**

PROTECTION
**IP54**

## Technical Specifications

### Measurement ranges and performance

| Parameter | Specification |
|---|---|
| **Model** | VIKING202S |
| **Instrument type** | Portable colorimeter |
| **Measurement principle** | Beer-Lambert law, photometric measurement |
| **Primary method** | Platinum-cobalt colorimetry |
| **Measurement range** | 20–500 PCU |
| **Absorbance range** | -0.3 to 3 A |
| **Accuracy** | ±5% |
| **Resolution** | 0.01 PCU |
| **Colorimetric method** | Tube-based |
| **Measurement time** | Approx. 1 second |
| **Supported parameters** | Version dependent; examples include Cl, Fe, Mn, COD, O3 and PO4. |

### Calibration and data functions

| Function | Technical note |
|---|---|
| **Calibration** | Up to 7-point calibration. |
| **Standard curve** | Built-in standard curve. |
| **Custom curve** | User-defined custom curve setup supported. |
| **Factory restore** | Factory calibration restore function. |
| **Data memory** | Up to 5000 test records. |

### System, power and environmental data

| Parameter | Specification |
|---|---|
| **Display** | 3-inch color display. |
| **Optical system** | High-precision optical filter system. |
| **Light source** | Silicon photodiode / optical source data should be confirmed for final quotation. |
| **Output** | Micro USB. |
| **Power supply** | Rechargeable Li-ion battery / AC adapter. |
| **Battery life** | Up to 10 hours operation. |
| **Protection rating** | IP54. |
| **Dimensions** | 100 × 210 × 70 mm. |
| **Net weight** | Approx. 1 kg. |
| **Shipping size** | 355 × 265 × 150 mm. |
| **Gross weight** | Approx. 2 kg. |
| **Operating temperature** | 5–40 °C. |
| **Humidity** | ≤85% RH, non-condensing. |

### Specification verification note

**Final configuration:** reagent set, programmed parameters and supplied accessories depend on selected version.

**Power / optical source:** preliminary source content contains some conflicting generic data; final offer should confirm the exact power and optical-source configuration.

**Quotation control:** use manufacturer-confirmed offer as the binding technical reference.

Technical values are provided for product selection and orientation. Final delivered configuration, method list, reagent set, accessories and documentation should be confirmed through the official COLO.Science quotation or manufacturer-confirmed offer.

## Standard Delivery, Applications and Visual Support


VIKING202S · portable colorimeter main unit

### Typical standard delivery

**Main unit:** VIKING202S Portable Colorimeter.

**Sample bottles:** 5 pcs sample bottles for routine colorimetric measurement workflows.

**Power adapter:** charger / AC adapter for rechargeable operation.

**Documentation:** user manual and product documentation according to delivered configuration.

**Reagents:** reagent package depends on selected parameter version and quotation.

### Recommended use cases


Portable colorimeter · field and laboratory operation


Water quality testing · tube-based colorimetric analysis

**Configuration notice — method set depends on selected version**

Portable colorimeters may be supplied with different parameter configurations, reagent sets and accessories. Confirm required parameters, sample matrix, expected concentration range and reporting workflow before ordering.

## Selection and Use Notes

### For drinking water

**Routine control:** confirm chlorine, iron, manganese, phosphate or other parameter requirements.

**Method fit:** choose the correct reagent chemistry and measurement range.

### For wastewater

**Matrix effects:** confirm sample turbidity, colour background and dilution requirements.

**Documentation:** use stored records and USB output for internal reporting.

### For field work

**Portable operation:** recharge before mobile measurement sessions.

**Protection:** IP54 supports practical field use but does not replace careful sample handling.

MANUFACTURER AND SUPPORT

## COLO Lab Experts

**Polje ob Sotli 4, SI-3255, Slovenia**

**Selection guidance:** Send the required parameters, sample matrix, expected concentration ranges, reagent preferences, field/laboratory use case and documentation requirements. COLO.Science can help confirm whether VIKING202S is the correct colorimeter configuration.

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Laboratory colorimeters category

COLO.SCIENCE · VIKING202S PORTABLE COLORIMETER SUPPORT

## Need help selecting the correct colorimeter configuration?

Send the parameter list, expected sample range, reagent method and reporting requirement. COLO.Science can help confirm a suitable VIKING202S configuration for drinking water, wastewater, environmental monitoring or industrial quality-control workflows.

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