

VIKING-TU500P

Portable Turbidity Meter • 0–500 NTU • $\pm 2\%$ + 0.02 NTU • 860 nm LED • ISO 7027 • IP65

VIKING-TU500P Portable Turbidity Meter measures turbidity of drinking water, process water and wastewater by the nephelometric (or ratio) method with a 860 nm LED (ISO 7027): 0–500 NTU, $\pm 2\%$ of reading + 0.02 NTU, zero and 1–4-point Formazin calibration, 1000-result GLP memory; IP65 housing for field use.

PORTABLE TURBIDITY METER

0–500 NTU

$\pm 2\%$ + 0.02 NTU

860 NM LED

ISO 7027

IP65

NTU / FNU / EBC

1–4 PTS

Document type: Technical Specification Sheet

Product: VIKING-TU500P Portable Turbidity Meter

SKU: PRO7161

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VIKING-TU500P • Portable Turbidity Meter



Standard delivery • 5 turbidity vials, carrying case, power adapter

MODEL / SKU

**VIKING-TU500P
PRO7161**

ADDRESS / HQ

**Polje ob Sotli 4
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VIKING-TU500P • technical specification

Portable Turbidity Meter • 860 nm LED (ISO 7027)

0–500 NTU ±2 % + 0.02 NTU 860 NM LED ISO 7027 IP65 — Nephelometric or ratio

Product Overview

Application profile

Drinking water: turbidity control after filtration and disinfection.

Wastewater: influent, effluent and clarifier monitoring.

Industry: process water, beverages, pharma and chemicals.

Environment: surface water and field sampling.

Advantages

Accuracy: ±2 % of reading + 0.02 NTU

Calibration: Zero + 1–4 points with Formazin standards

Light source: 860 nm LED (ISO 7027)

Data memory: 1000 results, GLP (user ID, date, time)

Key features

Measuring principle: Nephelometric or ratio

Units: NTU, FNU, EBC

Resolution: 0.01 / 0.1 / 1 NTU

Display: 3.5" LCD

Power supply: Rechargeable Li battery; adapter 100–240 V AC / 5 V DC 2 A

Core technical summary

Parameter	Specification
Model	VIKING-TU500P
SKU	PRO7161
Instrument type	Portable Turbidity Meter
Light source	860 nm LED (ISO 7027)
Range (auto)	0.00–9.99 / 10.0–99.9 / 100–500 NTU
Accuracy	±2 % of reading + 0.02 NTU
Repeatability	≤0.5 %
Calibration	Zero + 1–4 points with Formazin standards

 RANGE
0–500 NTU

 ACCURACY
±2 % + 0.02 NTU

 REPEATABILITY
≤0.5 %

 CALIBRATION POINTS
1–4

Technical values are provided for product selection. The delivered configuration, electrode type and accessory set are confirmed in the official COLO.Science quotation.

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Technical Parameters

Parameter	Specification	Parameter	Specification
Light source	860 nm LED (ISO 7027)	Calibration	Zero + 1–4 points with Formazin standards
Measuring principle	Nephelometric or ratio	Data memory	1000 results, GLP (user ID, date, time)
Range (auto)	0.00–9.99 / 10.0–99.9 / 100–500 NTU	Data output	RS-232 (printer)
Resolution	0.01 / 0.1 / 1 NTU	Display	3.5" LCD
Accuracy	±2 % of reading + 0.02 NTU	Power supply	Rechargeable Li battery; adapter 100–240 V AC / 5 V DC 2 A
Repeatability	≤0.5 %	Protection	IP65 · Auto power-off
Stability	±0.5 % FS / 30 min	Dimensions	90 × 250 × 90 mm
Units	NTU, FNU, EBC	Weight	approx. 0.8 kg
Reading modes	Continuous, average and auto reading		

Specification notes

Vials: use clean, scratch-free vials; wipe them with silicone oil and always insert them in the same orientation.

Standards: calibration standards are not part of the standard delivery; order the set that matches the range.

Calibration: Formazin-based standards; the stored calibration can be reset to factory data.

Light source: 860 nm LED meets ISO 7027 (colour-independent); the tungsten lamp meets US EPA 180.1.

Calibration procedure: let the meter warm up; read the standards from the lowest to the highest concentration as prompted; then verify with a standard that the reading is within tolerance.

Good practice: avoid air bubbles, keep the outer vial wall dry and clean, do not shake standards vigorously, use standards within their expiry date and keep ambient light stable. Calibrate weekly in routine work or before critical tests, at least monthly at low use.

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Accessories and consumables



PRO7162

Turbidity vials, 5 pcs

Optical glass sample vials with screw caps; keep them clean and scratch-free, mark the orientation.

Standard delivery



PRO7165

Turbidity standards 20/200/500 NTU

Long-life calibration standard set for zero and multi-point calibration.

Optional



Carrying case

Hard case for the meter, vials and standards for field work.

Standard delivery

More accessories and consumables

SKU	Item	Use	Status
—	Silicone oil and lint-free cloth	Vial care	Optional
PRO7162	Turbidity vials, 5 pcs	Measurement	Optional
—	RS-232 printer	Documentation	Optional
PRO7163	Turbidity standards 20/200/500/1000/2000 NTU	Calibration	Optional

Standard delivery: meter, 5 turbidity vials, carrying case, power adapter. Standard delivery is confirmed in the quotation.

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VIKING-TU500P standard delivery

Ordering information

Item	Value
Model	VIKING-TU500P
SKU	PRO7161
Instrument type	Portable Turbidity Meter
Standard delivery	5 turbidity vials, carrying case, power adapter
Power supply	Rechargeable Li battery; adapter 100–240 V AC / 5 V DC 2 A

Configuration checklist

Range: low turbidity (drinking water) or up to 500 NTU (wastewater).

Standard: ISO 7027 (LED) or US EPA 180.1 (tungsten lamp).

Place of use: laboratory bench or field (IP65 portable).

Calibration: weekly in routine work or before critical tests, from the lowest to the highest standard, then verification.

MANUFACTURER AND SUPPORT

COLO Lab Experts
Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: VIKING-TU500P is chosen for economical field checks up to 500 NTU. COLO.Science helps you choose standards and vials.

QUICK CONTACT

 colo.si

 sales@colo.si

 +386 70 713 437

COLO.SCIENCE · TURBIDITY METER CONFIGURATION SUPPORT

Need help choosing the right turbidity meter?

Tell us the sample type, the expected turbidity and the standard you report by. COLO.Science will confirm the VIKING-TU500P configuration, standards and vials.

Web: colo.si

Ask us:

Price and current discount, delivery time, electrode selection for your sample, calibration standards, installation and operator training, spare electrodes and accessories — write to sales@colo.si or call us.

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