

VIKING-TU90P

Portable Turbidity Meter • 0–200 NTU • $\pm 2\%$ + 0.02 NTU • 850 nm LED • ISO 7027 • IP65

VIKING-TU90P Portable Turbidity Meter measures turbidity of drinking water, process water and wastewater by the nephelometric (90°) method with a 850 nm LED (ISO 7027): 0–200 NTU, $\pm 2\%$ of reading + 0.02 NTU, zero and 1–3-point Formazin calibration; IP65 housing for field use.

PORTABLE TURBIDITY METER

0–200 NTU

$\pm 2\%$ + 0.02 NTU

850 NM LED

ISO 7027

IP65

Document type: **Technical Specification Sheet**

Product: **VIKING-TU90P Portable Turbidity Meter**

SKU: **PRO3176**

Format: **A4 landscape • 5 pages**

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VIKING-TU90P • Portable Turbidity Meter



Standard delivery • 2 turbidity vials, carrying case, power adapter

MODEL / SKU

**VIKING-TU90P
PRO3176**

ADDRESS / HQ

**Polje ob Sotli 4
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VIKING-TU90P • technical specification

Portable Turbidity Meter • 850 nm LED (ISO 7027)

0–200 NTU ±2 % + 0.02 NTU 850 NM LED ISO 7027 IP65 — Nephelometric (90°)

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 + 1–3 points with Formazin standards

Light source: 850 nm LED (ISO 7027)

Repeatability: ≤1.0 %

Key features

Measuring principle: Nephelometric (90°)

Units: NTU, FNU, EBC

Resolution: 0.01 / 0.1 NTU

Power supply: AA batteries or adapter 200–240 V AC / 5 V DC

Core technical summary

Parameter	Specification
Model	VIKING-TU90P
SKU	PRO3176
Instrument type	Portable Turbidity Meter
Light source	850 nm LED (ISO 7027)
Range (auto)	0.00–20.00 / 20.0–200.0 NTU
Accuracy	±2 % of reading + 0.02 NTU
Repeatability	≤1.0 %
Calibration	Zero + 1–3 points with Formazin standards

RANGE

0–200 NTU

ACCURACY

±2 % + 0.02 NTU

REPEATABILITY

≤1.0 %

CALIBRATION POINTS

1–3

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	850 nm LED (ISO 7027)	Units	NTU, FNU, EBC
Measuring principle	Nephelometric (90°)	Calibration	Zero + 1–3 points with Formazin standards
Range (auto)	0.00–20.00 / 20.0–200.0 NTU	Power supply	AA batteries or adapter 200–240 V AC / 5 V DC
Resolution	0.01 / 0.1 NTU	Protection	IP65 · Auto power-off
Accuracy	±2 % of reading + 0.02 NTU	Dimensions	100 × 220 × 80 mm
Repeatability	≤1.0 %	Weight	approx. 0.8 kg
Stability	±1.0 % FS / 30 min		

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: 850 nm LED according to ISO 7027, nephelometric 90° detection.

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



Formazin standards 2 / 20 / 200 NTU

Standards for the 1–3 point calibration of the 850 nm meters.

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

Standard delivery: meter, 2 turbidity vials, carrying case, power adapter. Standard delivery is confirmed in the quotation.

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VIKING-TU90P standard delivery

Ordering information

Item	Value
Model	VIKING-TU90P
SKU	PRO3176
Instrument type	Portable Turbidity Meter
Standard delivery	2 turbidity vials, carrying case, power adapter
Power supply	AA batteries or adapter 200–240 V AC / 5 V DC

Configuration checklist

Range: low turbidity (drinking water) or up to 200 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-TU90P is chosen for simple field checks up to 200 NTU on AA batteries. 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-TU90P 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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