Trusted measurement for high turbidity applications; simplified.

The new TL23 Series laboratory turbidimeters blend trusted technology and improved features to simplify testing in the most demanding wastewater and industrial applications.

Improved and intuitive design
The TL23 Series’ large full color touch screen display and intuitive user interface accelerate setup, calibration and measurement. An easy interface and guided procedures give you confidence in your results.

A smart device for more reliable measurements
The TL23 Series ensures stable readings and accurate analysis by capturing turbidity readings once the device detects sample stability. This quality step removes subjectivity and the need for repeated measurements.

Easy to use. Easy to Be Right
The TL23 Series provides everything you need at your fingertips. With a USB port for easy data export, sample identification for traceability, and self-diagnostics for quality assurance, Hach® makes it easy to Be Right.

Specifications

Accuracy:
- FNU: ±2% of reading plus 0.01 FNU from 0 - 1000 FNU
- FAU: ±10% of reading from 20 - 10000 NTU
- NTU: ±2% of reading plus 0.01 NTU from 0 - 1000 NTU, ±5% of reading from 1000 - 4000 NTU, ±10% of reading from 4000 - 10000 NTU
- Absorbance: ±0.005 Abs from 0 - 1 Abs at 860 nm
- Transmittance: 0.12% T from 10 - 100% T at 860 nm

Air Purge:
- Dry nitrogen or instrument grade air (ANSI MC 11.1, 1975)
- 0.1 scfm at 69 kPa (10 psig); 138 kPa (20 psig) max

Hose barb connection for 1/8-inch tubing

Certifications:
- CE, KC, RCM

Communication:
- USB

Data Logging:
- 2000 total logs, includes reading log, verification log and calibration log

Dimensions (H x W x D):
- 153 mm x 395 mm x 305 mm

Display:
- 17.8 mm (7 in.) color touch screen

Interface:
- 2 USB-A ports for USB flash drive, external printer, keyboard and barcode scanner
Light Source: Light-emitting diode (LED) at 860 ± 30 nm
Measurement Method: Nephelometric
Model: TL2360 ISO
Operating Temperature Range: 0 - 40 °C
Power Requirements (Amps): 3.4 A
Power Requirements (Hz): 50/60 Hz
Power Requirements (Voltage): 100 - 240 VAC
Range: FNU (Ratio on): 0 - 1000

FNU (Ratio off): 0 - 40

FAU (auto range): 20 - 10000

NTU (Ratio on): 0 - 10000 auto decimal

NTU (Ratio off): 0 - 40

EBC (Ratio on): 0 - 24500 auto decimal

EBC (Ratio off): 0 - 9.8

Absorbance (auto range): 0 - 2.00

Transmittance (%): 1.0 - 100

Degree (mg/L): 0 - 100

Reading Modes: Manual or auto range, signal averaging on and adjustable or off, ratio on or off

Regulatory: Meets ISO 7027, DIN EN 27027, DIN 38404 and NFT 9033

Repeatability: ±1% of reading or 0.01 FNU/NTU, whichever is greater (under reference conditions)

Response Time: Signal averaging off: 6.8 seconds / Signal averaging on: 14 seconds (when 10 measurements are used to calculate the average)

Sample Cell Compatibility: Round cells 95 x 25 mm (3.74 x 1 in.) borosilicate glass with rubber-lined screw caps

Note: Smaller sample cells (less than 25 mm) can be used when a cell adapter is used.

Sample Requirements: 25 mm sample cell: 20 mL minimum

Stabilization Time: Immediately

Storage Conditions: -20 to 60 °C

Units: FNU, FAU, NTU, EBC, Abs (absorbance), %T (% transmittance) and mg/L

Weight: 3.0 kg

What's in the box?
TL2360 Turbidimeter, silicone oil, oiling cloth, USEPA filter assembly, 1-inch sample cells (30 mL) with caps (6x), Gelex secondary turbidity standardization kit, Stablcal calibration kit, power supply, power cord, dust cover