

Bench turbidimeter

TL2300



This new laboratory turbidimeter blends trusted technology and improved features to simplify testing in the most demanding industrial and wastewater applications, including high turbidity measurements.

Advantages

- Large full color touch screen display
- Intuitive user interface to accelerate setup, calibration and measurement
- Guided procedures
- Stable readings and accurate analysis by capturing turbidity readings once the device detects sample stability
- USB port for easy data export
- Sample identification for traceability
- Self-diagnostics
- 2000 total logs, includes reading log, verification log and calibration log



Ref. 200200

Principle

The optical system is comprised of a tungsten-filament lamp, lenses and apertures to focus the light, a 90° detector, forward-scatter light detector, a backscatter detector (TL2350 only) and a transmitted-light detector. The instrument permits turbidity measurements at less than 40 NTU to be performed using only the 90° scattered-light detector or 4000 NTU using the complete set of detectors (Ratio Measurement). With the Ratio Measurement on, the instrument's microprocessor uses a mathematical calculation to ratio signals from each detector. The benefits of using Ratio on for measurements include excellent linearity, calibration stability and the ability to measure turbidity in the presence of color.

Delivered with :

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

Specifications

Range	0 to 4000 NTU
Accuracy	Ratio on: $\pm 2\%$ of reading plus 0.01 NTU from 0 - 1000 NTU, $\pm 5\%$ of reading from 1000 - 4000 NTU based on formazin primary standard
Repeatability	$\pm 1\%$ of reading or 0.01 NTU, whichever is greater (under reference conditions)
Resolution	Turbidity: 0.001 NTU/EBC (on lowest range)
Response Time	Signal averaging off: 6.8 seconds / Signal averaging on: 14 seconds (when 10 measurements are used to calculate the average)
Stabilization	30 minutes after start-up
Reading Modes	Single, continuous, Rapidly Settling Turbidity™, signal averaging on or off, ratio on or off
Light Source	Lampe à filament de Tungstène
Sample Cell	Round cells 95 x 25 mm (3.74 x 1 in.) borosilicate glass with rubber-lined screw caps
Sample	20 mL minimum at 0 to 70 °C
Interface	2 USB-A ports for USB flash drive, external printer, keyboard or barcode scanner (not supplied)
Power requirements	100 to 240 V CA, 50/60 Hz, 3,4 A
Dimensions/Weight	153 x 395 x 305 mm / 3 kg

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