

Turb 430 Portable Turbidity Meter

Portable turbidity meter for accurate laboratory or field studies.



- Meets ISO 7027/EPA 180.1 for Turbidity Meters
- Highly precise and accurate at low levels
- Lab accuracy & comfort in a portable field instrument
- Supports multiple languages

Specifications

Turb 430 IR Portable Turbidity Meter

Measuring Principle: Nephelometric measurement according to DIN EN ISO 7027

Light Source: Infrared LED

Measuring Range: 0.01 to 1100 FNU/NTU

Resolution:

0.01 from 0.01 to 9.99 NTU/FNU

0.1 from 10.0 to 99.9 NTU/FNU

1 from 100 to 1100 NTU/FNU

Accuracy: ± 0.01 or $\pm 2\%$ of the measured value

Reproducibility: 0.5% of the measured value

Response Time: 4 seconds

Turb 430 T Portable Turbidity Meter

Measuring Principle: Nephelometric measurement according to US EPA 180.1

Light Source: White light tungsten lamp

Measuring Range: 0.01 to 1100 FNU/NTU

Resolution:

0.01 from 0.01 to 9.99 NTU/FNU

0.1 from 10.0 to 99.9 NTU/FNU

1 from 100 to 1100 NTU/FNU

Accuracy: ± 0.01 or $\pm 2\%$ of the measured value from 0 to 500 NTU, $\pm 2\%$ of the measured value from 500 to 1100 NTU

Reproducibility: 1% of the measured value

Response Time: 7 seconds

Calibration: Automatic 3-point calibration

Languages: English, French, Spanish, and German

Ambient conditions

Operation: 32° to 122°F (0° to 50°C)

Storage: 13° to 149°F (-25° to 65°C)

Allowable Relative Humidity: Yearly mean 75%

Power Source: 4 x 1.5 V AA batteries

Battery Life: ~3000 measurements (Turb 430IR), ~2000 measurements (Turb 430T)

Size (LxWxH): 9.3x3.4x4.6 inches (236x86x117 mm)

Weight: 1.3 lb (0.6kg) (without batteries)

Ingress protection: IP 67

Test certificates: cETLus, CE, FCC

Description

With the new portable turbidity meters Turb 430 T and Turb 430 IR, the user now has the choice to perform nephelometric measurements at 90° scattered light according to the application and standard required. The Turb 430 IR portable turbidity meter meets the DIN 27027/ISO7027 requirements, the Turb 430 T those of US EPA 180.1. The portable turbidity meter's measuring range is from 0 to 1100 NTU/FNU and is identified automatically. Accurate measurements by the portable turbidity meters in the lower range, e.g. in drinking water are no problem!

The Turb 430 Portable Turbidity Meters have menu driven 3 point calibration and all measurement functions are easy for even the most inexperienced operator to perform accurate and precise measurements. The calibration is via an AMCO® standards set (0.02-10-1000 NTU). The quality of the measurement results are supported by adjustable calibration intervals with documentation. The Turb 430 Portable Turbidity Meters are not only a field measuring instruments (especially with the practical field case), but also a "small lab instrument" for applications up to 1100 NTU/FNU and with optimum data management. Applications for the portable turbidity meters include all water testing applications, such as drinking water, process control, and the wine-making industry.

Options and Accessories

Turb 430T Portable Turbidity Meter (EPA)

Includes calibration kit (0.02 - 10 - 1000), 2 empty cuvettes, cleaning tissues, batteries (4 x AA), and field case with table insert.

Turb 430IR Portable Turbidity Meter (ISO)

Includes calibration kit (0.02 - 10 - 1000), 2 empty cuvettes, cleaning tissues, batteries (4 x AA), and field case with table insert.

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