

TN500 White Light Turbidity Meter with GLP data management and USB



Main Features

- Delivers accurate, fast, and reliable turbidity measurements
- Large TFT color screen with clear on-screen instructions for easy operation
- EPA-certified, non-toxic, and easy-to-use AMCOClear® polymer standard solutions
- TruRead™ measurement mode for samples that settle quickly and readings that change continuously
- Up to 200 data records can be stored and exported via USB
- IP67 waterproof housing allows field use, e.g. for drinking water analysis, environmental monitoring, etc.
- Convenient storage and transport in the case together with calibration solution, sample vials, and accessories

What's in the Kit

TN500	1
Calibration solutions (0,00 NTU, 20,0 NTU, 100 NTU, 400 NTU, 800 NTU)	1
Sample vials	6
Silicone oil	1
Microfiber cloth	1
USB stick with software	1
USB power adapter	1
Manual	1
Carrying case	1

Technical Parameters

Measurement method	Nephelometric method compliant with U.S. EPA 180.1 (measurement of scattered white light at 90°)
Light source	Tungsten filament lamp (400 nm – 600 nm)
Measuring range	0 - 1000 NTU (FNU), automatic range selection: 0,01 - 19,99 NTU (FNU) 20,0 - 99,9 NTU (FNU) 100 - 1000 NTU (FNU)
Accuracy	≤ ±2% of reading ± stray light
Repeatability	≤ ±1% of reading or 0,02 NTU, whichever is greater
Resolution	0,01 / 0,1 / 1 NTU (FNU)
Stray light	≤ 0,02 NTU (FNU)
Calibration standard	0, 20, 100, 400, 800 NTU (FNU) AMCO polymer or formazin
Light detector	Silicon photocell
Measurement modes	Normal measurement and TruRead™ measurement
Data storage	200 measurement groups
Interface	USB
Calibration memory	Calibration date and time
Display	TFT color display
Sample vial	ø25×60 mm, borosilicate glass with screw cap
Sample volume	18 ml
Power supply	3,7V rechargeable lithium battery
Operating conditions	Temperature: 0 – 50°C; rel. humidity: 0 – 90% at 30°C, 0 – 80% at 40°C, 0 – 70% at 50°C, non-condensing
Storage conditions	Meter: -40 to 60°C (-40 to 140°F) Calibration solutions: 5 to 30°C (41 to 86°F)
IP rating	IP67
Safety guidelines	ISO9001:2015 und CE
Dimensions	Meter: (90×203×80) mm/ 385 g
Weight	Carrying case: (310×295×110) mm/ 1,5 kg