

TN420 White Light Turbidity Meter



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
- 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

TN420	1
AMCOClear® calibration solutions (0 NTU, 20 NTU, 100 NTU, 400 NTU, 800 NTU)	1
Sample vials	6
Silicone oil	1
Microfiber cloth	1
Screwdriver	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 to 1000 NTU (FNU), automatic range selection: 0,01 to 19,99 NTU (FNU) 20,0 to 99,9 NTU (FNU) 100 to 1000 NTU (FNU)
Accuracy	≤ ±2% of reading ± stray light
Repeatability	≤ ±1 % of reading or 0,02 NTU (FNU) (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 averaging mode
Display	TFT color display
Sample vials	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 (32 °F – 122 °F); 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 certification	CE / RoHS
Dimensions and weight	Meter: (90×203×80) mm/ 385 g Complete kit: (310×295×110) mm/ 1,5 kg