TN400 Infrared 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
- Averaging measurement mode for even more accurate values, including with fluctuations during measurement or samples that settle quickly
- 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
- Quality and safety certification: ISO 7027 and DIN EN 27027

What's in the Kit

TN400	1
Calibration solutions (0,0 NTU, 20 NTU, 100 NTU, 400 NTU, 800 NTU)	1
Sample vials	6
Silicone oil	1
Screwdriver	1
Microfiber cloth	1
AA battery	4

Manual	1
Carrying case	1

Technical Parameters

Measurement method	Nephelometric method compliant with ISO 7027 and DIN EN 27027 (measurement of scattered infrared light at 90°)
Light source	Infrared LED (860±30 nm)
Measuring range	0 - 1000 NTU, automatic range selection: 0,01 - 19,99 NTU 20,0 - 99,9 NTU 100 - 1000 NTU
Accuracy	≤ ±2% of reading ± stray light
Repeatability	≤ ±1% of reading or 0,02 NTU, whichever is greater
Resolution	0,01 / 0,1 / 1 NTU
Stray light	≤ 0,02 NTU
Calibration standard	0, 20, 100, 400, 800 NTU 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	4 × 1,5V AA batteries
Temperature range	0-50°C (32˚F-122˚F)
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
Quality and safety guidelines	CE / RoHS
Dimensions (W×L×H Weight	Meter: (90×203×80) mm/ 385 g Carrying case: (310×295×110) mm/ 1,5 kg

APERA® INSTRUMENTS
Fluid Precision since 1991

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