

T10 TURBIDITY METER TECHNICAL SPECIFICATIONS

This document outlines the technical specification for the T10 turbidity meter. Please note that these specifications apply to manual turbidity analysis with the T10 meter only.

For details about automated turbidity analysis with the T10 and MT Environmental Titrators, please contact MANTECH at 519-763-4245 or at info@mantech-inc.com.

Measurement method	Ratio determination using a primary nephelometric light scatter signal (90°) to the transmitted light scatter signal.
Reading units	NTU/ EBC
Lamp Source	Tungsten Lamp (White Light); LED Lamp at 850nm (IR Light)
Method Conformity	EPA 180.1, ASTM D1889, SM 2130B (White Light); ISO 7027 and EN27027 (IR Light)
Detectors	Silicon Photocell Detectors at 90 and 180 degrees around the sample ensure all scattered light is measured.
Measuring Range	0 to 1000 NTU / 0 to 250 EBC
Resolution	0.01 on lowest range
Accuracy	± 2% of reading; 0 to 1000 NTU
Repeatability	± 1% of reading or 0.01 NTU
Automatic Reading	With user-defined intervals 0 to 250 seconds
Maximum uncertainty	± 2% of full scale
Display	LCD 2 lines / 16 characters
Response Time	Programmable 6 to 41 sec
Data Logger	Up to 1000 data
Auto ShutOff	Programmable from 1 to 60 min
Fast Cal function	Quick Calibration for single point
Software Functions	Signal averaging, "Fast Settling", results freezing, analyst and sample identification, calibration status, verification and calibration reminder, calibration history, password
Sample Required	15 ml vial with lid
Sample vials	Round borosilicate glass vial with screw and caps (Φ = 24,5 mm)
Power Supply	4 AA batteries or USB power supply cable
Indicator	Low battery indicator / battery exchange
Serial Output	USB
Storage Conditions	0 to 40°C (instrument only)
Dimensions	114 x 198 x 83 mm