

## Section 1 Specifications

Specifications are subject to change without notice.

Specification	Details
Measurement method	Nephelometric
Regulatory	Meets EPA Method 180.1 ASTM D7315 - Standard Test Method for Determination of Turbidity Above 1 Turbidity Unit (TU) in Static Mode ASTM D6855 - Standard Test Method for Determination of Turbidity Below 5 NTU in Static Mode
Dimensions (W x D x H)	39.5 x 30.5 x 15.3 cm (15.6 x 12.0 x 6.02 in.)
Weight	3.0 kg (6.6 lb)
Enclosure	IP30; indoor use only
Protection Class	External power supply: Protection Class I; instrument: Protection Class II
Pollution degree	2
Installation category	External power supply: Category II; instrument: Category I
Power requirements	Instrument: 12 VDC, 3.4 A; power supply: 100–240 VAC, 50/60 Hz
Operating temperature	0 to 40 °C (32 to 104 °F)
Storage temperature	–20 to 60 °C (–4 to 140 °F)
Humidity	5 to 95% relative humidity, non-condensing
Display	17.8 mm (7 in.) color touch screen
Light source	Tungsten filament lamp
Measurement units	NTU, EBC, Abs (absorbance), %T (% transmittance) and mg/L (degree)
Range	NTU (Ratio on): 0–10,000 auto decimal NTU (Ratio off): 0–40 EBC (Ratio on): 0–2450 auto decimal EBC (Ratio off): 0–9.8 Absorbance <sup>1</sup> (auto range): 0–1.0 Transmittance <sup>1</sup> (%): 1.0–100 Degree (mg/L): 1–100

<sup>1</sup> A filter assembly is necessary for absorbance or transmittance measurements

Specification	Details
Accuracy <sup>2, 3, 4</sup>	Ratio on: $\pm 2\%$ of reading plus 0.01 NTU from 0–1000 NTU, $\pm 5\%$ of reading from 1000–4000 NTU, $\pm 10\%$ of reading from 4000–10,000 NTU Ratio off: $\pm 2\%$ of reading plus 0.01 NTU from 0–40 NTU Absorbance: $\pm 0.01$ Abs from 0–0.5 Abs at 455 nm, $\pm 2\%$ Abs from 0.5–1 Abs at 455 nm Transmittance: 2% T from 10–100% T at 455 nm
Resolution	Turbidity: 0.001 NTU/EBC Absorbance: 0.001 Abs Transmittance: 0.1% T
Repeatability	$\pm 1\%$ of reading or 0.01 NTU, whichever is greater (under reference conditions)
Response time	Signal averaging off: 6.8 seconds Signal averaging on: 14 seconds (when 10 measurements are used to calculate the average)
Stabilization time	Ratio on: 30 minutes after start-up Ratio off: 60 minutes after start-up
Reading modes	Single, continuous, Rapidly Settling Turbidity™, signal averaging on or off, ratio on or off
Communication	USB
Interface	2 USB-A ports for USB flash drive, Seiko DPU-S445 printer, keyboard and barcode scanner
Datalog	Maximum 2000 total logs, includes reading log, verification log and calibration log
Air purge	Dry nitrogen or instrument grade air (ANSI MC 11.1, 1975) 0.1 scfm at 69 kPa (10 psig); 138 kPa (20 psig) maximum Hose barb connection for 1/8-inch tubing
Sample cells	Round cells 95 x 25 mm (3.74 x 1 in.) borosilicate glass with rubber-lined screw caps <i>Note: Smaller sample cells (less than 25 mm) can be used when a cell adapter is used.</i>
Sample requirements	25 mm sample cell: 20 mL minimum 0 to 70 °C (32 to 158 °F)
Certification	CE, KC, RCM
Warranty	1 year (EU: 2 years)

## Section 2 General information

In no event will the manufacturer be liable for direct, indirect, special, incidental or consequential damages resulting from any defect or omission in this manual. The manufacturer reserves the right to

<sup>2</sup> Turbidity specifications identified using USEPA filter assembly, recently prepared formazin standard and matched 25-mm sample cells.

<sup>3</sup> Intermittent electromagnetic radiation of 3 volts/meter or greater may cause slight accuracy shifts.

<sup>4</sup> Reference conditions:  $23 \pm 2$  °C, 50 ( $\pm 10$ )% RH noncondensing, 100–240 VAC, 50/60 Hz