Water Quality Turbidity Meter

geotech

Thermo Scientific Orion AQUAfast IV AQ4500 Turbidimeter

The Orion AQ4500 Turbidimeter offers advanced features not available on any other benchtop or portable turbidi-meter. The AQ4500 offers a dual source LED which allows readings that comply with both EPA 180.1 and ISO 7027. Turbidity can be read in the range of 0-1000 NTU with a choice of units: NTU, FAU, FNU, ASBC, and EBC. In the range of 0-40 NTU the AQ4500 offers a ratiometric range which will give EPA, GLI method 2 equivalent numbers.

This portable field unit is truly IP67 waterproof with typical battery life over 1000 hours on one set of batteries and datalog capacity of 100 points which can later be downloaded to a printer or computer. The AQ4500 accepts 24 mm cuvettes and comes with a two year warranty.

FEATURES

- **Nephelometric and Ratiometric measurements with Autoranging**

- **Data log capacity of up to 100 data points**

- **Readings in the range of 0-1000 NTU with a choice of units:
  NTU, FAU, FNU, ASBC, or EBC**

- **Includes Turbidity Standards kit, rugged carrying case, and replacement cuvettes**

- **Orion AQ4500 is IP67 waterproof to a depth of 3 meters**

SPECIFICATIONS

Type:	Turbidity Meter
Principle of Operation:	Nepeholmetric
Operating Modes:	Automatic
Measurement Modes:	Automatic
Ranges:	
NTU	0 - 2000
Nephelometric	0 - 4000
EPA 180.1	0 - 4000 NTU
ISO-NEPH (7027)	0 - 150 FNU
ISO-ABSB	40 - 4000 FAU
IR-RATIO	0 - 4000 NTU
EBC	0 - 24.5 EBC
ASBC	0 - 236 ASBC
Accuracy:	± 2% of reading plus 0.01 NTU (0 - 500 NTU) ± 3% of reading (500 - 1000 NTU) ± 5% of reading (1000 - 2000 NTU)
Resolution:	0.01 NTU (0 - 9.99) 0.1 NTU (10 -99.9) 1 NTU (100 - 1000)

Repeatability:	± 1% of reading or 0.01 NTU
Response Time:	< 8 seconds
Calibration:	1, 10, 100, 1000 NTU
Signal Averaging:	Yes
Sample Cell Size:	24 mm
Sample Size:	Approx 12 mL
Display:	Custom LCD
RTC:	Yes
Input/Output:	RS-232 Serial Port
Power:	Battery – four AA's (2,500 hours Alkaline, 10,000 Lithium)
Environmental Conditions:	
Operating Temperature	-40° to 140°F (-40° to 60°C)
Humidity	90% relative humidity at 30.0°C max
Light Source:	Light Emitting Diode (LED)
Warranty:	2 years
Weight:	8 lbs. (3.63 kg)
Safety Rating:	UL, CSA, CE, FCC

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