

# Water Quality Turbidity Meter

## Orion AQUAfast AQ4500 Turbidimeter

Thermo Electron introduces the Orion AQ4500 Turbidimeter which offers advanced features not available on any other benchtop or portable turbidimeter. 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, FTU, 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 of 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, FTU, FNU, ASBC, or EBC
- Includes Turbidity Standards kit, rugged carrying case, and replacement cuvettes
- Orion AQ4500 is truly IP67 waterproof to a depth of 3 meters



### SPECIFICATIONS

<b>Type</b>	Turbidity Meter	<b>Repeatability</b>	± 1% of reading or 0.01 NTU
<b>Principle of Operation</b>	Nephelometric	<b>Response Time</b>	< 8 seconds
<b>Operating Modes</b>	Automatic	<b>Calibration</b>	1, 10, 100, 1000 NTU
<b>Measurement Modes</b>	Automatic	<b>Signal Averaging</b>	Yes
<b>Ranges</b>		<b>Sample Cell Size</b>	24 mm
	<b>NTU</b> 0 - 2000	<b>Sample Size</b>	-12 mL
	<b>Nephelometric</b> 0 - 4000	<b>Display</b>	Custom LED
	<b>EPA</b> 0 - 4000 NTU	<b>RTC</b>	Yes
	<b>ISO - NEPH (7027)</b> 0 - 150 FNU	<b>Input/Output</b>	RS-232 Serial Port
	<b>ISO - ABSB</b> 40 - 4000 FAU	<b>Power</b>	Battery - four AA's (2,500 hours Alkaline, 10, 000 lithium)
	<b>IR RATIO</b> 0 - 4000 NTU	<b>Environmental Conditions</b>	
	<b>EBC</b> 0 - 24.5	<b>Operating Temperature</b>	-40° to 140°F (-40° to -60°C)
	<b>ASBC</b> 0 - 236	<b>Humidity</b>	90% RH at 30.0C max
<b>Accuracy</b>	± 2% of reading plus 0.01 NTU (0 - 500 NTU)	<b>Light Source</b>	White, IR
	± 3% of reading (500 - 1000 NTU)	<b>Warranty</b>	2 years
	± 5% of reading (1000 - 2000 NTU)	<b>Weight</b>	8 lbs (3.63 kg)
<b>Resolution</b>	0.01 NTU (0 - 9.99)	<b>Safety Rating</b>	UL, CSA, CE, FCC
	0.1 NTU (10 - 99.9)		
	1 NTU (100 - 1000)		