

Thermo Scientific Orion AQUAfast® IV Advanced Turbidity Meter



AQUA500 Kit

The AQUA500 offers ratiometric range, which will give EPA GLI method 2 equivalent numbers.

The AQUA500 turbidimeter has dual source LED that allows readings that comply with both EPA 180.1 and ISO 7027 methodologies.

- Nephelometric and ratiometric measurements with autoranging
- Data log capacity of up to 100 data points
- Readings in the range of 0 to 1000 NTU with choice of units: NTU, FTU, FNU, ASBC or EBC
- Includes turbidity standards kit, rugged carrying case, and replacement cuvettes
- The AQUA500 is truly IP67 waterproof to a depth of 3 meters

Specifications	Description
Light Source	White LED, IR LED
Temperature Effect	LED temperature compensated
Includes Measurement Modes	EPA 180.1, ISO Nephelometric, ISO Absorbance, IR Ratiometric, % Transmittance, EPA GLI Method 2, EBC (European Brewing Chemists), ASBC (American Society of Brewing Chemists)
Measurement Ranges	0 to 4000 NTU, EPA 0 to 2000 NTU, GLI range 0 to 40 NTU, ISO-7027 0 to 150 FAU, IR Ratio 0 to 4000 NTU, EBC 0 to 24.5, ASBC 0 to 236
Resolution	0.01 (0 to 9.99 NTU), 0.1 (10 to 99.9), 1 (100 to 1000)
Precision	+/- 2% of reading plus 0.01 NTU from 0 to 500 NTU, +/- 3% of reading from 500 to 1000 NTU, +/- 5% of reading from 1000 to 2000 NTU
Calibration Standards	Provided primary SDVB standards
Sample Size Minimum	10 mL
User Interface	Automatic sample measurement for each measurement with simple user interface
RS232	Bidirectional
Datalog	100 points
Real Time Clock	Yes
Power	Long life - low power consumption - about 2500 hours with 4 alkaline AA batteries or about 10000 with lithium batteries
Waterproof Rating	IP67
Warranty	2 years
Regulatory and Safety	CE, FCC part 15
Operating Temperatures	(-40 °C to 60 °C), 90% relative humidity at 30.0 °C max

Ordering Information

Cat. No.	Description
AQ4500	AQUAfast IV Turbidimeter and calibration kit Kit includes meter, 4 primary standards, standard and sample vials, silicone oil and cloth in carrying case
AQ4CBL	RS232 cable for data download and software updates
AC45FZ	Formazin turbidity standard, 4000 NTU, 475 mL
AC45SI	Silicon oil and cloth kit for AQUA500
AC45ST	Primary turbidity calibration kit
AC2T24	24 mm replacement turbidity vials, 12 pack