Thermo Scientific Orion AQ4500 Turbidity Meter

The AQ4500 features both White and Infrared light sources – so this is the only meter you need for all of your turbidity testing.

The AQ4500 turbidimeter has dual source LED that allows readings that comply with reporting requirements for both EPA and ISO 7027 methodologies.

- Nephelometric and ratiometric measurements with autoranging
- IR mode options for measurement of wines and colored samples
- Data log capacity of up to 100 data points
- Reading ranges vary from 0 to 4000 with appropriate units based on test selected
- Includes turbidity standards kit, rugged carrying case, and replacement vials
- The AQ4500 is truly IP67 waterproof to a depth of 3 meters

For drinking water, our Orion AQ4500 Method has been approved for regulatory reporting and is published in the US Federal Register.

For wastewater, our Orion AQ4500 Method has been approved for regulatory reporting and is published in the US Federal Register.

Methods are available at www.thermofisher.com/WAI-Library.

The IR based methods meet ISO 7027 requirements. Review the measurement information in the user guide to determine the method needed.

Specifications

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 100 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	Orion AQ4500 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
AC45S1	Silicon oil and cloth kit for AQ4500
AC45ST	Primary turbidity calibration kit for AQ4500 meter only, replacement
AC2T24	24 mm replacement turbidity only vials, 12 pack

AQ4500 Kit