

Thermo Scientific Orion AQUAfast® AQ4500 Turbidimeter

Advanced features not available on any other benchtop or portable turbidimeter



| Model No | Description |
|----------|---|
| AQ4500 | AQUAfast IV Turbidimeter and calibration kit Kit includes meter, SDVB primary standards, 7 sample vials, batteries, and carrying case |

- » Dual source LED allows readings that comply with USEPA 180.1 and ISO 7027
- » Robust unit for precise field measurements
- » Nephelometric and ratiometric measurements with autoranging
- » Data log capacity of up to 100 data points
- » IP67 waterproof to a depth of three metres

AQUAfast AQ4500

The AQUAfast AQ4500 Turbidimeter offers advanced features not available on any other benchtop or portable turbidimeter.

The AQ4500 operates in white light turbidimetric mode to be compatible with US EPA 180.1 specifications. It can also operate in an infra-red mode for compliance to ISO 7027. For highly coloured samples, the unit can also operate in a ratio infra-red mode for maximum accuracy in highly coloured samples.

The AQ4500 has two levels of signal averaging for regular use and more extreme sample conditions. It features the unique white light LED which has built in power output compensation to adjust for light intensity fluctuations.

A low stray light optical path means accurate and reproducible results at low turbidities. Low to medium levels of colour in the sample is automatically compensated for in the various infra-red modes. Colour is also compensated for very well in the white light EPA 180.1 mode through the use of 2 detector ratio measurements. For maximum correction for colour the infra-red ratio mode is available which combines both ratio detection using a 90° nephelometric detector and an absorbance detector as well as the natural colour rejection of an infra-red LED.

The AQ4500 also features a tough plastic case and white light LED to withstand more shock than a traditional tungsten lamp and provide longer life.



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Specifications

| | |
|-----------------------------------|---|
| 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 Tempe | (-40 °C to 60 °C), 90% relative humidity at 30.0 °C max |
| Weight | 11lb with battery (453 Gram) |