

Applications

- Drinking water
- Waste water
- Pure water / Power
- Industrial water
- Environmental
- Food & beverage

Portable Turbidimeter 2100Q / 2100Q IS

Easy calibration and verification
The 2100Q and 2100Q IS portable turbidimeters provide confidence your measurements are right every time. On-screen assisted calibration and verification save you time and ensure accuracy.
With an easy-to-follow interface, complicated manuals are not needed to perform routine calibrations. Single-standard RapidCal calibration offers a simplified solution for low level measurements.

Simple Data Transfer
Data transfer with the 2100Q / 2100Q IS is simple, flexible, and does not require additional software when used with the optional USB+Power module. All data can be transferred to the module and easily downloaded to your computer with a USB connection, providing superior data integrity and availability. With two different module options, you can customise connectivity and power to meet your unique needs.

Accurate for rapidly settling samples
The 2100Q / 2100Q IS portable turbidimeter incorporates an innovative Rapidly Settling Turbidity mode to provide accurate, repeatable measurements for difficult to measure, rapidly settling samples.
An exclusive algorithm that calculates turbidity based on a series of automatic readings eliminates redundant measurements and estimating.

Convenient Data Logging
Up to 500 measurements are automatically stored in the instrument for easy access and backup. Stored information includes: date and time, operator ID, reading mode, sample ID, sample number, units, calibration time, calibration status, error messages and the result.

Optical system for precision in the field
The two-detector optical system compensates for color in the sample, light fluctuation, and stray light, enabling analysts to achieve laboratory-grade performance on a wide range of samples, even under difficult site conditions.

Two models for specific requirements
- 2100Q Turbidimeter - compliant with USEPA Method 180.1 design criteria.
- 2100Q IS Turbidimeter - compliant with ISO 7027 design criteria.

Portable Turbidimeter 2100Q / 2100Q IS

Technical Data

Measurement method
Ratio turbidimetric determination using a primary nephelometric light scatter signal and transmitted light scatter signal.

Regulatory
2100Q: meets EPA Method 180.1
2100Q IS: meets ISO 7027

Light source
2100Q: Tungsten filament lamp
2100Q IS: Light-emitting diode (LED) at 860 nm

Measuring range
0-1000 NTU (FNU)

Accuracy
±2% of reading plus stray light from 0 to 1000 NTU

Repeatability
±1% of reading or 0.01 NTU whichever is greater

Resolution
0.01 NTU on lowest range

Stray light
<0.02 NTU

Signal averaging
Selectable on/off

Reading modes (user selectable)
Normal (Push to Read)
Signal Averaging
Rapidly Settling Turbidity

Data logger
500 records

Power requirement
110-230 Vac (with Power or USB+Power module)
50 / 60 Hz (with Power or USB+Power module)
4 AA alkaline batteries
4 AA NiMH (for use with USB+Power module)

Operating conditions
Temperature: 0-50 °C
Relative humidity: 0-90% non-condensing at 30 °C, 0-80% non-condensing at 40 °C, 0-70% non-condensing at 50 °C

Storage conditions
-40 - 60 °C (instrument only)

Languages
English, French, German, Italian, Spanish, Portuguese (BR), Portuguese (PT), Bulgarian, Chinese, Czech, Danish, Dutch, Finnish, Greek, Hungarian, Japanese, Korean, Polish, Romanian, Russian, Slovenian, Swedish, Turkish

Interface
Optional USB

Instrument enclosure rating
IP 67 (closed lid, battery and module compartments excluded)

Certification
CE/RoHS/WEEE

Sample required
15 mL

Sample cells
25 mm × 60 mm round (borosilicate glass with screw cap)

Dimensions
10.7 cm × 7.7 cm × 22.9 cm

Weight
527 g without batteries

Warranty
2 years

Order information and accessories

2100Q01: 2100Q Portable Turbidimeter (EPA)

2100QIS01: 2100Q IS Portable Turbidimeter (ISO)

Scope of supply
Instrument, case assembly, 4 AA alkaline batteries, 6 sample cells, STABLCAL ampule kit, silicone oil, oiling cloth, manual.

Optional Accessories

LZV804.99.00001 Power module
LZV813.99.00001 USB+Power module
2971304 NiMH batteries, AA, pk/4
4397500 Degassing Kit
4397510 Sample Filtration and Degassing Kit
2464105 Gelex Secondary Standards Kit

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Subject to change without notice.