Portable Turbidity Meter

Hach 2100Q and 2100Q is Portable Turbidimeter

The Hach 2100Q and 2100Q is Portable Turbidimeters offer unsurpassed ease of use and accuracy in turbidity measurement. Hach offers a unique combination of advanced features, such as assisted calibration, simplified data transfer, and measurement innovation, for the most accurate results every time.

FEATURES

Key Features
• Closed cap control eliminates ambient light interference.
• On-screen assisted verification assures instrument is performing correctly.
• Easy-to-follow interface in 23 pre-programed languages.

Easy Calibration and Verification
• Accurate measurements.
• Single-standard RapidCal™ calibration for low level measurements.

Accurate for Rapidly Settling Samples
• Rapidly Settling Turbidity™ mode to provide accurate, repeatable measurements for difficult to measure, rapidly settling samples.
• Elimination of redundant measurements and estimating.

Convenient Data Logging
• Up to 500 measurements are automatically stored in the instrument.
• 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.

Simple Data Transfer
• Data transfer with optional USB+Power Module.
• All data can be transferred to the module and easily downloaded to your computer with a USB connection.
• Two different module options to customize connectivity and power.

Two Models for Specific Requirements
• 2100Q Turbidimeter – Compliant with USEPA Method 180.1.
• 2100Q is Turbidimeter – Compliant with ISO 7027.

All Turbidity Meters Come Complete With:
• 4 AA alkaline batteries
• Carrying case with insert
• StabCal primary calibration standards in 1” sealed vials (20, 100, 800 NTU)
• 10 NTU primary verification standard
• 6 sample cells with screw-tops
• Instrument manual (printed and on CD-ROM)
• Quick-start guide
• Silicone oil and oiling cloth

Power Module (Prod. No. LZV804)
• Line power: 110-230VAC, 50/60 Hz

USB+Power Module (Prod. No. LZV813)
• Line power: 110-230VAC, 50/60 Hz
• Charges NiMH batteries
• Transfers data to computer or printer
• Enables firmware updates

CALL GEOTECH TODAY (800) 833-7958
Geotech Environmental Equipment, Inc.
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### SPECIFICATIONS

**Measurement Method**
Ratio turbidimetric determination using a primary nephelometric light scatter signal (90°) to the transmitted light scatter signal.

**Regulatory**
- 2100Q: Meets EPA Method 180.1
- 2100Q: Meets ISO 7027

**Light Source**
- 2100Q: Tungsten filament lamp
- 2100Q: Light-emitting diode (LED) @ 860 nm

**Range**
0 to 1000 NTU (FNU)

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

**Repeatability**
±1% of reading, or 0.01 NTU (FNU), whichever is greater

**Resolution**
0.01 NTU on lowest range

**Stray Light**
<0.02 NTU (FNU)

**Signal Averaging**
Selective On/Off

**Detector**
Silicon photovoltaic

**Reading Modes (user selectable)**
- Normal (Push to Read)
- Signal Averaging
- Rapidly Settling Turbidity

**Data Logger**
500 records

**Power Requirement**
- 110-230 VAC, 50/60 Hz (with Power or USB+Power Module)
- 4 AA alkaline batteries
- Rechargeable NiMH batteries (for use with USB+Power Module)

**Operating Conditions**
- Temperature: 32 to 122°F (0 to 50°C)
- Relative Humidity: 0 to 90% @ 86°F (30°C), 0 to 80% @ 104°F (40°C), 0 to 70% @ 122°F (50°C), noncondensing

**Storage Conditions**
-40 to 140°F (-40 to 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**
IP67 (closed lid, battery compartment excluded)

**Protection Class**
Power Supply: Class II

**Certification**
CE certified

**Sample Required**
0.3 oz. (15 mL)

**Sample Cells**
2.36 x 1 in. (60 x 25 mm) borosilicate glass with screw cap

**Dimensions**
9.0 x 4.2 x 3.0 in. (22.9 x 10.7 x 7.7 cm)

**Weight**
1.16 lb. (527 g) without batteries
1.36 lb. (618 g) with four AA alkaline batteries

**Warranty**
1 year

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