



### 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.



**LANGE** 

# 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, Roman-  
ian, 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

Subject to change without notice.



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