

# 2100P and 2100P IS Portable Turbidimeter

## Features and Benefits

### Laboratory Quality in a Portable Unit

The Hach 2100P and 2100P IS Portable Turbidimeters offer a level of performance previously possible only with laboratory instruments. Microprocessor-controlled operation and Hach's unique Ratio™ optics bring great accuracy, sensitivity, and reliability to field and in-plant testing.

### Two Models for Specific Requirements

- **2100P Turbidimeter**—Get fast, accurate turbidity testing in the field or the lab, over a wide range of samples. Compliant with USEPA Method 180.1 design criteria.
- **2100P IS Turbidimeter**—Designed to meet international standards that mandate measurement using an LED light source.

### Two-detector Optical System

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, onsite conditions.



The Hach 2100P and 2100P IS Portable Turbidimeters bring laboratory-level performance on-site, offering fast, accurate results and the ease-of-use analysts demand in the field. With a measurement range of 0 to 1000 NTU and a resolution of 0.01 NTU, the 2100P turbidimeter is ideal for regulatory monitoring, process control or field studies.

DW

WW

PW

IW

E

FB

## Specifications\*

	2100P	2100P IS
<b>Measurement Method</b>	Nephelometric Ratio	
<b>Regulatory</b>	Meets EPA Method 180.1	Meets EN ISO 7027
<b>Light Source</b>	Tungsten lamp	Light-emitting diode (LED) @ 860 nm
<b>Range</b>		
<i>Automatic Range Mode</i>	0 to 1000 NTU	0 to 1000 FNU
<i>Manual Range Selection</i>	0 to 9.99, 0 to 99.9 and 0 to 1000 NTU	0 to 9.99, 0 to 99.9 and 0 to 1000 FNU
<b>Accuracy</b>	±2% of reading plus stray light	
<b>Repeatability</b>	±1% of reading, or 0.01 NTU, whichever is greater	±1% of reading, or 0.01 FNU, whichever is greater
<b>Resolution</b>	0.01 on lowest range	
<b>Signal Averaging</b>	Selectable on/off	
<b>Power Requirement</b>	4 AA alkaline batteries or optional battery eliminator	
<b>Battery Life, Typical</b>	300 tests with signal average mode off 180 tests with signal average mode on	
<b>Operating Temperature</b>	0 to 50°C (32 to 122°F)	
<b>Sample Required</b>	15 mL (0.5 oz.)	
<b>Sample Cells</b>	60 x 25 mm (2.36 x 1 in.) borosilicate glass with screw caps	
<b>Dimensions</b>	22.2 x 9.5 x 7.9 cm (8.75 x 3.75 x 3.12 in.)	
<b>Weight</b>	0.5 kg (1.1 lb.); shipping weight 2.7 kg (6 lb.)	
<b>Warranty</b>	2 years	

\*Specifications subject to change without notice.

DW = drinking water WW = wastewater municipal PW = pure water / power  
IW = industrial water E = environmental C = collections FB = food and beverage



Be Right™

## Ordering Information

### Hach 2100P and 2100P IS Portable Turbidimeters

Portable turbidimeters are supplied with sample cells, ampules of <math><0.1^\*</math>, 20, 100, and 800 NTU StablCal® Stabilized Formazin Standards, 15 mL silicone oil and sample cell oiling cloth, Instrument and Operations Manual, Quick Reference Card, four AA alkaline batteries, and carrying case.

- 4650000** 2100P Portable Turbidimeter, USEPA compliant
- 4474000** 2100P IS Portable Turbidimeter, ISO compliant

### StablCal® Stabilized Formazin Standards

- 2659400** Calibration Set, 500 mL each <math><0.1^\*</math>, 20, 100, and 800 NTU
- 2659410** Calibration Set, 100 mL each <math><0.1^\*</math>, 20, 100, and 800 NTU
- 2659405** Calibration Set, sealed vials <math><0.1^\*</math>, 20, 100, and 800 NTU
- 2659742** <math><0.1^\*</math> NTU, 100 mL
- 2659749** <math><0.1^\*</math> NTU, 500 mL
- 2659753** <math><0.1^\*</math> NTU, 1 L
- 2660142** 20 NTU, 100 mL
- 2660149** 20 NTU, 500 mL
- 2660153** 20 NTU, 1 L
- 2660242** 100 NTU, 100 mL
- 2660249** 100 NTU, 500 mL
- 2660542** 800 NTU, 100 mL
- 2660549** 800 NTU, 500 mL

### Optional Accessories

- 4397500** Degassing Kit
- 4397510** Sample Filtration and Degassing Kit
- 126936** Silicone Oil, 15 mL
- 4707600** Sample Cell Oiling Cloth
- 4607900** Battery Eliminator, 120 V
- 4608000** Battery Eliminator, 230 V

\*<math><0.1</math> NTU StablCal® Solution is used in place of low turbidity water when performing calibrations

## Other Hach Turbidimeters...

### 2100N and 2100AN Turbidimeters

(see Lit. #2498)

Hach laboratory turbidimeters include the 2100N and 2100AN Turbidimeters, which meet USEPA Method 180.1 standards, and the 2100N IS and the 2100AN IS Turbidimeters, which meet ISO 7027 standards. All four models offer wide measurement range, ease of calibration, and the application flexibility required for demanding laboratory use.

### On-line Turbidimeters

Hach also offers a complete line of advanced, on-line turbidimeters for process monitoring. Please contact Hach or your representative for more information.



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*At Hach, it's about learning from our customers and providing the right answers. It's more than ensuring the quality of water—it's about ensuring the quality of life. When it comes to the things that touch our lives...*

*Keep it pure.*

*Make it simple.*

*Be right.*

*For current price information, technical support, and ordering assistance, contact the Hach office or distributor serving your area.*



**Be Right™**