

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
Measurement Method	Nephelometric Ratio	
Regulatory	Meets EPA Method 180.1	Meets EN ISO 7027
Light Source	Tungsten lamp	Light-emitting diode (LED) @ 860 nm
Range		
<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
Accuracy	±2% of reading plus stray light	
Repeatability	±1% of reading, or 0.01 NTU, whichever is greater	±1% of reading, or 0.01 FNU, whichever is greater
Resolution	0.01 on lowest range	
Signal Averaging	Selectable on/off	
Power Requirement	4 AA alkaline batteries or optional battery eliminator	
Battery Life, Typical	300 tests with signal average mode off 180 tests with signal average mode on	
Operating Temperature	0 to 50°C (32 to 122°F)	
Sample Required	15 mL (0.5 oz.)	
Sample Cells	60 x 25 mm (2.36 x 1 in.) borosilicate glass with screw caps	
Dimensions	22.2 x 9.5 x 7.9 cm (8.75 x 3.75 x 3.12 in.)	
Weight	0.5 kg (1.1 lb.); shipping weight 2.7 kg (6 lb.)	
Warranty	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 <0.1*, 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 <0.1*, 20, 100, and 800 NTU

2659410 Calibration Set, 100 mL each <0.1*, 20, 100, and 800 NTU

2659405 Calibration Set, sealed vials <0.1*, 20, 100, and 800 NTU

2659742 <0.1* NTU, 100 mL

2659749 <0.1* NTU, 500 mL

2659753 <0.1* 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

*<0.1 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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In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time.

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Keep it pure.

Make it simple.

Be right.

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