

Instrumentation

2020 Portable Turbidity Meters

The 2020 combines an advanced microprocessor with a patent-pending optical chamber resulting in higher accuracy and a wider range.



The multi-detector optical configuration assures long term stability and minimizes stray light and color interferences. All readings are determined by the process of signal averaging over a 5 second period. This minimizes fluctuations in readings attributed to large particles and results in rapid, highly repeatable measurements. Ideally suited for both low-level drinking water applications as well as monitoring high turbidity in the field.

- Patent pending optical design features focusing optics for **low range precision** and accuracy.
- Six user selected languages – English, Spanish, French, Japanese, Italian, and Portuguese.
- MSP430 Microcontroller used is the most advanced controller on the market for hand held applications.
- Advanced calibration algorithms.
- Tube positioning ring limits vial variability.
- Easy menu driven operation and large LCD display.
- 4000 point data log; stored results can be viewed directly on instrument or downloaded to a computer via RS232 cable.

2020e version meets **USEPA design** criteria as specified by USEPA method 180.1.

2020i version meets design criteria for quantitative methods of turbidity using optical turbidimeters as specified by **ISO 7027**.

Kits are supplied with 0, 1, and 10 NTU standard, sample bottle, four sample tubes, and an extra battery.



2-Year Warranty

Instrumentation

2020 Portable Turbidity Meter

To Order:

Model 2020e Kit • Order Code 1979-EPA

Model 2020i Kit • Order Code 1979-ISO

Options:

- 0 NTU Standard (ISO and EPA), 60 mL • Order Code 1480
- 1 NTU Standard (ISO), 60 mL • Order Code 1481
- 10 NTU Standard (ISO), 60 mL • Order Code 1482
- 100 NTU Standard (ISO), 60 mL • Order Code 1483
- 1 NTU Standard (EPA), 60 mL • Order Code 1484
- 10 NTU Standard (EPA), 60 mL • Order Code 1485
- 100 NTU Standard (EPA), 60 mL • Order Code 1486
- Formazin Standard Solution, 4000 NTU, 60 mL • Order Code 6195-H
- AC Power Adapter (100-240 V AC) • Order Code 1754
- Vial Ring (2-pk) • Order Code 0641
- Six-pack of vials • Order Code 0290-6
- RS232 Cable • Order Code 1772

Turbidity Specifications:

| | |
|------------------------|--|
| <i>Unit of Measure</i> | NTU, FNU, FAU, ASBC, EBC |
| <i>Range</i> | 0-4000 |
| <i>Resolution</i> | 0.01 NTU/FNU 0.00-10.99 0.1 NTU/FNU 11.00-109.9 1 NTU/FNU 110-4000 |
| <i>Accuracy</i> | ±2% |
| <i>Detection Limit</i> | 0.05 NTU/FNU |
| <i>Range Selection</i> | Automatic |
| <i>Reproducibility</i> | 0.02 NTU/FNU 0.5 FAU |
| <i>Light Source</i> | 860nm LED (ISO) Tungsten (EPA) |

Meter Features:

| | |
|--------------------------|---|
| <i>Signal Averaging</i> | Disabled, 2, 5, 10 |
| <i>Battery</i> | 9V |
| <i>AC Power</i> | Optional |
| <i>Data Logging</i> | 4000 points |
| <i>Auto Shut-Off</i> | Disabled, 5, 10, 30 |
| <i>Optional Software</i> | SmartLink 2 |
| <i>Languages</i> | English, French, Spanish, Japanese, Italian, Portuguese |
| <i>Response Time</i> | <5 Seconds |

