Water Quality Measurement Solutions

Micro 1000
Laboratory Turbidimeter



- **Extended Auto Ranging up to 10,000 NTU**
- **Auto Alert Calibration Prompt**
- **Multiple Measurement Modes**
- **Built-in Diagnostics**
- **Ratio (Color Correction)**
- **Reusable PRIMELINE Calibration Standards**

Designed to provide the accuracy demanded in today's laboratory, the Micro 1000 Ratio Turbidimeter is ready to meet the challenge. Features such as the Auto Alert Calibration Prompt and the Quick Connection Lamp Module, allow for simple calibration and low maintenance. A full time ratio (color correction) mode is also featured. With a resolution of 0.0001 NTU at low turbidity readings and an extended range to 10,000 NTU, the Micro 1000 is an ideal and affordable tool for research as well as routine analytical measurements.

MicroTI1000 Ratio Turbidimeter

Specifications

Range:	0 - 10,000 NTU 0 - 2,450 EBC 0 - 10,000 FNU 0 - 10,000 FAU
Principle of Operation:	Nephelometric
Ratio (Color Correction)	Full Time ON or OFF
Accuracy:	± 2% of reading plus 0.01 NTU (0-1,000 NTU) whichever is greater ± 5% of reading (1000 to 4000 NTU) ± 10% of reading (4000 to 10,000 NTU)
Resolution:	0.0001 NTU on Lowest Range
Response Time:	less than 6 seconds
Sample Size:	30 ml
Light Source:	Quick Connect Tungsten Filament or Infrared
Operating Temperature:	32° - 122°F (0° - 50°C)
Air Purge:	Connection for external dry air supply
Outputs:	RS-232 Serial Port
Shipping Dimensions:	14 x 12 x 12 inches (35.5 x 30.4 x 30.5 cm)
Weight:	7.0 lbs. (3.18 kg)
Certification:	UL, CSA, CE, ISO7027

Note: The MicroTI1000 meets performance criteria specified by method 180.1 for NTU measurement and ISO7027 (IR version).

Standard Features

- **Extended Auto Ranging Up to 10,000 NTU**
  Instrument senses turbidity level of sample and automatically adjusts to the appropriate measurement range.
- **Auto Alert Calibration Prompt**
  Automatically prompts the operator to initiate simple menu-driven calibration.
- **Simple Calibration Procedures**
  Calibration initiated with the push of a button ensures accurate readings.
- **Ratio (Color Correction)**
  Automatic Compensation for background color.
- **RS-232 Output**
  Date, time and NTU reading can be captured with a serial printer or data recorder.
- **Reusable PRIMELIME Calibration Standards**
  Quick and easy calibration across all ranges without the need to mix Formazin.

Optional Features

- **Pour and Flow Through Assemblies**
  Save time by pouring the grab sample through the measurement chamber or pressure feed using the flow through assembly.

Ordering Information

Cat. No.	Description	Approval
20016	MicroTI1000 IR Ratio Turbidimeter, 100 -240 VAC	ISO7027
20014	MicroTI1000 WL Ratio Turbidimeter, 100 -240 V Universal Adapter	USEPA

All units include a set of PRIMELIME Calibration Standards (0.02, 10, 100 and 1,750 NTU), two measuring cuvettes with light shield caps, operator's manual, and plug-in power adapter.

Accessories

Cat. No.	Description
29927	PRIMELIME Calibration Set for WL (0.02, 10, 100, 1750 NTU)
29928	PRIMELIME Calibration Set for IR, (0.02, 10, 100, 1750 NTU)
50051	Cuvettes, 28 x 70mm, 3 pack
19975	Pour Through Assembly
19889	Flow Through Assembly
19939	PRIMELIME Calibration Standard, 10,000 NTU (infrared)
19938	PRIMELIME Calibration Standard, 10,000 NTU (White Light)



Optional Pour Through Assembly

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Rev 07-01-08