M100+™ Laboratory Turbidimeter

Job Name _____   Contractor _____

Job Location _____   Approval _____

Engineer _____   Contractor's P.O. No. _____

Approval _____   Representative _____

M100+™
Laboratory Turbidimeter

The M100+™ Laboratory Turbidimeter offers an easy solution for verifying operation of online turbidimeters like the MTOL+. The color touchscreen interface provides fast access to settings, data and calibration functions. Features such as the Auto Alert Calibration Prompt simplify maintenance. With a resolution of up to 0.0001 NTU at low turbidity readings and an extended range up to 4,000 NTU, the M100+ is an ideal and affordable tool for research as well as routine analytical measurements. The M100+ includes a USB port for downloading logged data and firmware updating.

Features

- **Auto Ranging from 0 to 4000 NTU**
  Instrument senses the turbidity level of sample and automatically adjusts the measurement range

- **Calibration Alert**
  The M100+ prompts the operator when calibration is required

- **Simple Calibration Procedure**
  Insert the calibration standard and initiate calibration with the press of a button

- **Data Logging**
  Download historical NTU readings through USB connection or send to a printer or data recorder

- **Infrared and White Light Model Options**
  Choose EPA 180.1 compliant white light or ISO 7027 infrared model

- **Reusable ProCal Calibration Standards**
  Quick, easy calibration across all ranges without need to mix Formazin

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

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Specifications

Range:	Auto ranging from 0 – 4000 NTU
Measurement Principle:	Nephelometric below 1000 NTU / Ratio above 1000 NTU
Accuracy:	2% of reading or ± 0.02 NTU below 40 NTU, whichever is Greater ±5% of reading above 40 NTU
Resolution:	Selectable up to 0.0001 NTU
Response Time:	≤ 3 seconds
Sample Size:	30 ml (27 ml minimum)
Light Source:	White light (tungsten filament) or Infrared (860nm LED)
Operating Temperature:	1°C – 40°C (34°F – 104°F)
Outputs:	USB
Dimensions:	10.75 x 10 x 3.75 in. (27.3 x 25.4 x 9.5 cm)
Weight:	2.9 lbs. (1.32 kg)
Safety Rating:	UL, CSA (LC mark), CE

Note: The M100+ meets performance criteria specified by USEPA method 180.1 (white light version) and ISO 7027 (Infrared version) for NTU measurement.

Specifications subject to change without notice.

Ordering Information

CAT. NO.	MODEL	NTU RANGE	USEPA METHOD 180.1	ISO 7027
28060	White Light	0-4000	x	
28061	Infrared	0-4000		x

All units include a set of ProCal Calibration Standards (0-4000 NTU), two measuring cuvettes with light shield caps, operator's manual, and plug-in power adapter.

Calibration Kits/Standards

PART #	DESCRIPTION
39940	ProCal Calibration Kit (0-4000 NTU for M100+ White Light)
39941	ProCal Calibration Kit (0-4000 NTU for M100+ Infrared)
39957	ProCal Calibration Kit (0-1000 NTU)
39825	ProCal Calibration Standard 10 NTU, 125 ml
50040	Formazin Stock Solution Kit

Spare Parts

PART #	DESCRIPTION
50051	Cuvettes 28 x 70 mm, 3 pack
50052	Cuvettes 28 x 70 mm, 10 pack
24082S	Replacement Lamp Assembly White Light
21396S	Replacement Lamp Assembly IR Light

ProCal Calibration Set

- EPA approved, pre-diluted standards that can be used for HF Scientific turbidimeters as well as others.
- More Stable than Formazin
- Easy to work with
- Non-Hazardous

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