Micro OL Online Turbidimeter

Leading Edge Technology in an Easy To Use and Affordable Instrument



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Leading edge Microelectronic Technology combined with 30 years of optical measurement expertise has allowed HF Scientific to become the leader in regulatory reporting turbidimeters. The HF MicroloL On-line Turbidimeter has been specifically designed to meet regulations of the EPA and ISO 7027. Features include fast and easy calibration,

SPECIFICATIONS

STANDARD FEATURES:

• Fast and Easy Calibration:

Verification in seconds while a complete primary calibration can be completed in less than 5 minutes. *(see figure 2)

• Low Volume Sample Chamber:

Low volume sample chamber (30ml) reduces calibration costs and provides quick response times.

• Low Maintenance Fail Safe Design:

Simple Modular Design. Easy to Use & Service.

• Bubble Rejection System:

Eliminates Bubbles without delaying the response time.

Affordable:

Modular microprocessor based technology ensures high quality at the industry's lowest price.

OPTIONAL FEATURES:

Autoclean:

Ultrasonic cleaning allows for the first EPA Accepted Automatic Cleaning OnLine Turbidimeter

Online Software:

Allows logging, comparisons, graphs and data acquisition for up to 256 online turbidimeters into a PC.

• RS-485 with Modbus:

Digitally connect with high speed Modbus communications

• Remote Display:

CATALOG No.

ORDERING INFORMATION

Allows remote monitoring up to 500 feet away.

DESCRIPTION

verification in seconds, low maintenance, fail safe design which ensures your instrument is always reading accurately, bubble rejection system, optional autoclean ultrasonic cleaning system, and a data aquisition software system that allows logging and data storage for multiple turbidimeters.

Range:	0 - 1000 NTU
Measurement Principle	Nephelometry (90)
Accuracy:	2% of reading or ± 0.020 Below 40 NTU
	5% of reading or \pm 0.020 Above 40 NTU
Resolution:	0.0001 Selectable
Response Time:	1 to 20 seconds - 0 to 1000 NTU
Standard Outputs:	4-20 ma Galvanic Isolated or RS-485
RS-485 Protocols:	Modbus, HF Simplebus, HF Online Interface
User Alarms:	2 User selectable high/low Alarms
Light Source:	White Light or Infrared (850nm)
Operating Temperature:	0° - 50°C (32° to 122°F)
Flow Rate:	.02626 gpm (100ml/min - 1000ml/min)
Enclosure:	Nema 4X, IP66
Display:	Multiline Custom LCD (Backlight Option)
Certifications:	USEPA, ISO7027, CE Approved



to CSA 22.2 No. 1010-1-92

*Figure 2

 20023
 Microlol 1, White Light (WL), 0-1000 NTU, 90-250 VAC

 20024
 Microlol 1, Infrared Light (IR), 0-1000 NTU, 90-250 VAC

 20053
 Microlol 2, WL, 0-1000 NTU, Backlight Display, RS-485/Modbus Protocol

20054 MicrolOL 2, IR, 0-1000 NTU, Backlight Display, RS-485/Modbus Protocol

MicrolOL 3, WL, 0-100 NTU, Ultrasonic Auto Clean, Backlight Display, RS-485/Modbus

MicrolOL 3, IR, 0-100 NTU, Ultrasonic Auto Clean, Backlight Display, RS-485/Modbus

MicrolOL 4, WL, 0-1000 NTU, Ultrasonic Auto Clean, Backlight Display, RS-485/Modbus

20063 MicrolOL 4, WL, 0-1000 NTU, Ultrasonic Auto Clean, Backlight Display, RS-485/Modbus 20064 MicrolOL 4, IR, 0-1000 NTU, Ultrasonic Auto Clean, Backlight Display, RS-485/Modbus

All units delivered fully calibrated and include 4-20ma, desiccant, spare measuring cuvette w/light shield, power supply and manual

Accessories

19783	HF ONLINE Windows TM Software for data collection & reporting
19609	Remote Display for an additional digital readout.
19953	Primary Calibration Kit, Low Range, 0.02 & 10 & 100 NTU for TOL 3.
19957	Primary Calibration Kit, Full Range, 0.02, 10, & 1000 NTU
21555R	Desiccant Tray-Refill
19778	Flow Regulator (recommended for pressurized systems)



ETL Listed to UL 3111-1 and ETL Certified

UltraSonic Cleaning System

Keeps the optical chamber clean in finished or raw water applications.

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