It scientific, inc.

Clean Water Through Innovative Technology



Leading edge Microprocessor Technology combined with 30 years of optical measurement expertise has allowed HF scientific to become the leader in regulatory reporting turbidimeters. The HF MicroTOL OnLine Turbidimeter has been specifically designed to meet regulations of the EPA and ISO 7027. Features include fast and easy calibration, verification in seconds, low maintenance, fail safe design which ensures the instrument is always reading accurately, bubble rejection system, optional autoclean ultrasonic cleaning system, and a data acquisition software system that allows logging and data storage for multiple turbidimeters.

Micro OL Online Turbidimeter

Specifications

Denge	0 4000 NTU			
Range:	0 - 1000 NTU			
Measurement Principle:	Nephelometry (90)			
Accuracy:	2% of reading or ±0.015 Below 40 NTU 5% of reading above 40 NTU			
Resolution:	0.0001 Selectable			
Response Time:	Adjustable (5 to 500 seconds) 0 - 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 LED)			
Operating Temperature:	0° - 50° (32° to 122°F)			
Input Pressure:	1 - 200psi (built in regulator set at 15psi)			
Enclosure:	Nema 4X, IP66			
Display:	Multiline Custom Backlight LCD			
Certifications:	USEPA, ISO 7027, CE Approved ETL Listed to UL 3111-1 and ETL Certified to CSA 22.2 No. 1010-1-92			

Ordering Information

Cat. No.	Micro10L Model	Range in NTU	Ultrasonic Autoclean	USEPA Method 180.1	ISO 7027
20053	#2 White Light	0 - 1000		X	
20054	#2 Infrared	0 - 1000			Х
20055	#3 White Light	0 - 100	Х	Х	
20056	#3 Infrared	0 - 100	Х		Х
20063	#4 White Light	0 - 1000	Х	X	
20064	#4 Infrared	0 - 1000	Х		Х

All units delivered fully calibrated and include 4-20ma, backlight display, RS-485/Modbus, inline pressure regulator, desiccant, power supply and quick start guide.

Accessories

19783	HF Online Windows™ Software for data collection & reporting
19609	Remote Display for an additional digital readout.
29953	Primelime Primary Calibration Kit, Low Range, 0.02 & 10 & 100 NTU for TOL 3
29957	Primelime Primary Calibration Kit, Full Range, 0.02, 10, & 1000 NTU
20779S	Power Cord - 120 VAC / 240 VAC

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E-mail: info@hfscientific.com www.hfscientific.com

Represented by:

Standard Features

Fast and Easy Calibration

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

- Low Volume Sample Chamber Low volume sample chamber (30 ml) 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 Allows remote monitoring up to 500 feet away.



Ultrasonic Cleaning System

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

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HF Online software



*figure 2 **Easy Calibration**