Engineering Specification

Job Name —————————————————————— Contractor ——————————————————————

Job Location —————————————————————— Approval ——————————————————————

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

Approval —————————————————————— Representative ——————————————————————

MTOL+™ Online Process Turbidimeter

Leading edge microprocessor technology combined with over 35 years of optical measurement expertise has allowed HF scientific to become the leader in regulatory reporting turbidimeters. The MTOL+ Online Process Turbidimeter has been specifically designed to meet regulations of EPA 180.1 and ISO 7027.

Features

- **Fast and Easy Calibration**
  Primary calibration can be completed in less than 5 minutes.

- **Low Volume Sample Chamber**
  Reduces calibration costs and provides quick response times.

- **Long Lasting Light Source**
  Field replaceable if necessary.

- **Low Maintenance Design**
  Simple modular design. Easy to operate & service. No external controller needed.

- **Bubble Rejection System**
  Eliminates bubbles without delaying response time.

- **Value**
  High quality with many features.

New Features

- Data logging and storage of 1 year's measurement and calibration data

- Variable user-selectable logging interval from 1 to 60 minutes

- Download data via USB flash drive

- Software updates via USB flash drive

- Isolated 4-20mA output standard

- 4-20mA and RS-485 Modbus outputs simultaneously

- Ultrasonic cleaning standard

- IP65 Sealing Rating

Patented Ultrasonic Autoclean System
Keeps the optical chamber clean in finished or raw water applications.

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Specifications

Range	0-10 NTU pre-calibrated
	0-100 NTU and 0-1000 NTU firmware files included on USB flash drive provided
Measurement Principle	Nephelometry (90°)
Accuracy	2% of reading or +/- 0.02 below 40 NTU (whichever is greater),5% of reading above 40 NTU
Resolution	0.001 (below 10 NTU) User-Selectable
Response Time	Fast Response : Adjustable Averaging
Standard Outputs	4-20mA isolated and RS-485 Modbus
User Alarms	2 user-selectable high/low/system alarms C Form
Light Source	White Light (tungsten filament, krypton gas filled) or Infrared (860nm LED)
Operating Temperature	1°C-50°C (34°F - 122°F)
Input Pressure	1-101psi (7 bar) (built in regulator set at 15psi)
Display	Custom backlight LCD
Certifications	USEPA, ISO 7027, CE Approved
Power Input	100-240VAC, 47-63Hz

*24VDC option available

Specifications subject to change without notice.

Ordering Information

Cat. No.	Model	NTU Range	USEPA Method 180.1	ISO 7027
28028	White Light	0-100	x	
28027	Infrared	0-100		x

Accessories

39953	ProCal EPA Approved Primary Calibration Kit 0.02, 10 & 100 NTU
21555R	Desiccant Refill
20779S	Power Cord 120 VAC / 240 VAC
24166S	Replacement Ultrasonic Cuvette Assembly
28157	Mounting Plate Kit, Easy Mount & Hardware

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