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# 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 Fail Safe 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

- Software updates via USB

- Isolated 4-20mA output standard

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

- Ultrasonic cleaning standard

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

**HF scientific**

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## Specifications

| | |
|---|---|
| Range | 0-100 NTU pre-calibrated |
| | 0-10 NTU and 0-1000 NTU calibration files included on USB key 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 |
| RS-485 Protocols | Modbus |
| User Alarms | 2 user-selectable high/low/system alarms C Form |
| Light Source | White Light (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 |

**Specifications subject to change without notice.**

## Ordering Information

| Cat. No. | Model | NTU Range | USEPA Method 180.1 | ISO 7027 |
|---|---|---|---|---|
| 28053 | White Light | 0-100 | x | |
| 28052 | Infrared | 0-100 | | x |

## Accessories

| | |
|---|---|
| 39953 | ProCal EPA Approved Primary Calibration Kit 0.02, 10 & 100 NTU |
| 21555R | Desiccant Refill |
| 50121 | Flow Through Assembly, High Temperature (0-90°C) |
| 20779S | Power Cord 120 VAC / 240 VAC |

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