

# ECO NTU

## Turbidity Sensor

WET Labs offers the Environmental Characterization Optics (ECO) series of meters that incorporate a common set of options with a single basic design to make them ideal for a wide variety of deployments.

## Features

- Unparalleled sensitivity of the ECO in an optical scattering measurement at 700 nm for determining turbidity
- Turbidity measurement data that is not affected by CDOM concentration, unlike instruments that attempt to measure turbidity by using blue wavelengths
- The option of analog output for easy integration into CTD packages
- Excellent precision, reliability and overall performance at a fraction of the cost and size of similar instruments



## Optical

|             |                                             |
|-------------|---------------------------------------------|
| Wavelength  | 700 nm                                      |
| Sensitivity | 0-125 NTU: 0.02 NTU<br>0-1000 NTU: 0.12 NTU |
| Range       | 0~125, 0-1000 NTU                           |

## Electrical

|                           |                         |
|---------------------------|-------------------------|
| Digital output resolution | 14 bit                  |
| Internal data logging     | Optional                |
| Internal batteries        | Optional                |
| Connector                 | MCBH6MP                 |
| Input                     | 7-15 VDC                |
| Current, typical          | 50 mA                   |
| Current, sleep            | 140 $\mu$ A             |
| Data memory               | 108,000 samples         |
| Sample rate               | User selectable to 8 Hz |
| RS-232 output             | 19200 baud              |
| Analog output signal      | 0-5 v                   |
| Anti-fouling Bio-wiper™   | Optional*               |
| Bio-wiper™ cycle          | 140 mA                  |

## Options\*

**NTU(RT)**— Analog and RS-232 serial output. This unit operates continuously when power is supplied.

**NTU(RT)D**—Provides the capabilities of the NTU(RT) with 6,000-meter depth rating.

**NTUB**—The capabilities of the NTU with internal memory and batteries for autonomous operation.

**NTUS**—The capabilities of the NTU with internal memory and integrated anti-fouling Bio-wiper™.

**NTUSB**—The capabilities of the NTUS with internal batteries for autonomous operation.

## Environmental

|                   |                              |
|-------------------|------------------------------|
| Temperature Range | 0 - 30 °C                    |
| Depth Rating*     | 600 m (std)<br>6000 m (deep) |

## Mechanical

|                 |                                                |
|-----------------|------------------------------------------------|
| Diameter        | 6.3 cm                                         |
| Length          | 12.7 cm (std)<br>17.68 cm (deep)               |
| Weight in air   | 0.4 kg (std)<br>1.3 kg (deep)                  |
| Weight in water | 0.02 kg (std)<br>0.75 (deep)                   |
| Materials       | Acetal copolymer (standard)<br>Titanium (deep) |

\*The limit depth for ECO with Anti-fouling Bio-wiper™ and Internal Batteries (models B, S and SB) rated to 300 m.