

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. The NTU provides:

- 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.



Mechanical

<i>Diameter</i>	6.3 cm
<i>Length</i>	12.7 cm (standard) 17.68 cm (deep)
<i>Weight in air</i>	0.4 kg (standard) 1.3 kg (deep)
<i>Weight in water</i>	0.02 kg (standard) 0.75 kg (deep)
<i>Pressure housing</i>	Acetal copolymer (standard) Titanium (deep)

Optical

<i>Wavelength</i>	700 nm
<i>Sensitivity</i>	0–125: 0.02 NTU 0–1000 NTU: 0.12 NTU
<i>Ranges</i>	0–125, 0–1000 NTU

Electrical

<i>Digital output resolution</i>	14 bit
<i>RS-232 output</i>	19200 baud
<i>Analog output signal</i>	0–5 V
<i>Internal data logging</i>	optional
<i>Internal batteries</i>	optional
<i>Connector</i>	MCBH-6-MP
<i>Input</i>	7–15 VDC
<i>Current, typical</i>	50 mA
<i>Current, sleep</i>	140 µA
<i>Data memory</i>	108,000 samples
<i>Sample rate</i>	to 8 Hz
<i>Anti-fouling Bio-wiper™</i>	optional
<i>Current, Bio-wiper™ cycle</i>	140 mA

Environmental

<i>Temperature range</i>	0 to 30 deg C
<i>Depth rating</i>	600 m (standard) 6000 m (deep)
<i>Pressure/temperature sensor</i>	optional

Specifications subject to change without notice.

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.