

ECO-NTU



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 660 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.

Specifications:

Mechanical

Diameter	6.3 cm
Length	12.7 cm, (standard) 25.6 cm (deep)
Weight in air	0.4 kg (standard) 1.3 kg (deep)
Weight in water	0.02 kg (standard) 0.75 kg (deep)
Pressure housing	Acetal copolymer (standard) Titanium (deep)

Electrical

Digital output resolution	14 bit
RS-232 output	19200 baud
Analog output signal	0–5 V
Internal data logging	optional
Internal batteries	optional
Connector	MCBH-6-MP
Input	7–15 VDC
Current, typical	60 mA
Current, sleep	150 uA
Data memory	90,000 samples
Sample rate to	8 Hz
Anti-fouling Bio-wiper™	optional
Bio-wiper™ cycle	140 mA

Optical

Wavelength	700 nm
Sensitivity	0–125: 0.02; 0–400: 0.05;
Ranges	0–1000 NTU: 0.12 0–125, 0–400, 0–1000 NTU

Environmental

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

- NTU(RT)**— Analog and RS-232 serial output with 4,000-count range. This unit operates continuously when power is supplied.
- NTU(RT)D**— Provides the capabilities of the NTU(RT) with 6,000-meter depth rating.
- NTU**— The capabilities of the NTU(RT) with periodic sampling.
- NTUB**— The capabilities of the NTU with internal batteries for autonomous operation.
- NTUS**— The capabilities of the NTU with an integrated anti-fouling *bio-wiper™*.
- NTUSB**— The capabilities of the NTUS with internal batteries for autonomous operation.

Specifications subject to change without notice.

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