

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 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 μ 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) 6000 m (deep)

Mechanical

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

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