

ECO FLNTU

Fluorometer and Scattering Meter

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 FLNTU:

- Combines the unparalleled sensitivity of the ECO fluorometer with an optical scattering measurement at 700 nm for simultaneous determination of turbidity
- Ranges for output tailored to the environment
- Allows for assessment of fluorescence and turbidity variability and interactions
- Digital and analog output for easy integration into analog CTD packages or serial data streams
- Provides excellent precision, reliability and overall performance at a fraction of the cost and size of similar instruments



Optical - Turbidity

Wavelength	700 nm
Sensitivity	0.01 NTU
Range, Typical	0-25 NTU

Optical - Fluorescence

Wavelength ex/em	470/695 nm
Sensitivity	0.025 µg/l Chl
Range, Typical	0-50 µg/l Chl
Linearity (both)	99% R ²

Electrical

Digital output resolution	12 bit
Internal data logging	Optional
Internal batteries	Optional
Connector	MCBH6MP
Input	7-15 VDC
Current, typical	60 mA
Current, sleep	140 µA
Data memory	90,000 samples
Sample rate	User selectable to 8 Hz
RS-232 output	19200 baud
Anti-fouling Bio-wiper™	Optional*

Options*

EFLNTU(RT)— Analog and RS-232 serial output with 4,000-count range. Unit operates continuously when power is supplied.

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

FLNTUB—The capabilities of the FLNTU with internal batteries and memory for autonomous operation.

FLNTUS—The capabilities of the FLNTU with an integrated anti-fouling Bio-wiper™.

FLNTUSB—The capabilities of the FLNTUS with internal batteries for autonomous operation.

Environmental

Pressure/temperature sensor	Optional
Temperature Range	0 - 30 °C
Depth Rating*	600 m

Mechanical

Diameter	6.3 cm
Length	12.7 cm (std) 25.6 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.