

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.



Mechanical	
<i>Diameter</i>	6.3 cm
<i>Length</i>	12.7 cm (standard) 25.6 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 (Turbidity)	
<i>Wavelength</i>	700 nm
<i>Sensitivity</i>	0.01 NTU
<i>Range, typical</i>	0–25 NTU

Optical (Fluorescence)	
<i>Wavelength</i>	ex/em 470/695 nm
<i>Sensitivity</i>	0.025 µg/l Chl
<i>Range, typical</i>	0–50 µg/l Chl
<i>Linearity (both)</i>	99% R ²

Electrical	
<i>Digital output resolution</i>	12 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>	MCBH6MP
<i>Input</i>	7–15 VDC
<i>Current, typical</i>	60 mA
<i>Current, sleep</i>	140 µA
<i>Data memory</i>	90,000 samples
<i>Sample rate</i>	to 8 Hz
<i>Anti-fouling Bio-wiper™</i>	optional

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.

FLNTU(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.