



ECO Pucks™

WET Labs manufactures a miniature version of the popular *Environmental Characterization Optics (ECO)* series instruments for OEM applications. ECO series instruments incorporate a common set of options with a single basic design. The puck™ version is specifically designed for applications where space and power requirements are critical. Pucks™ are ideal for a wide variety of applications, including AUVs, gliders, and profiling floats.

Available Configurations

■ **Fluorometer (FL)**

Single-wavelength measurement of your choice of chlorophyll-a, CDOM, phycocyanin, phycoerythrin, uranine (fluorescein), or rhodamine.

■ **Combo Fluorometer-Scattering Meter (BB2F)***

Measures chlorophyll-a at 470 nm and scattering at 470 and 700 nm at 117 degrees.

■ **Combo Fluorometer-Turbidity Sensor (FLNTU)**

Measures chlorophyll-a in µg/l and turbidity in NTU.

■ **Single-wavelength Scattering Meter (BB)**

Measures optical scattering at 117 degrees at your choice of 470, 530, 660, or 880 nm wavelengths.

■ **Three-wavelength Scattering Meter (BB3)**

Measures optical scattering at 117 degrees at 470, 530, and 660 nm wavelengths (880 nm optional).

■ **Volume Scattering Function Meter (VSF)**

Measures optical scattering at 100, 125, and 150 degrees.

■ **Custom Combo Meter (Custom)**

2 scattering–1 fluorescence, 1 scattering–2 fluorescence, or 3 fluorescence measurements—your choice.



* Development of the BB2F was, in part, funded under NOPP and the NSF for "Development of Optical Sensors for Autonomous and Unattended Use" in conjunction with Mary Jane Perry of the University of Maine and Charles Eriksen of the University of Washington.



ECO Puck Specifications

Mechanical

<i>Diameter</i>	2.48 in (6.3 cm)
<i>Length</i>	2.0 in (5.0 cm)
<i>Weight in air</i>	0.63 lbs (0.28 kg)
<i>Weight in water</i>	0.19 lbs (0.02 kg)

Environmental

<i>Temperature range</i>	0–30 deg C
<i>Depth rating</i>	600 m (standard)

Electrical

<i>Digital output resolution</i>	12 bit
<i>RS-232 output</i>	19200 baud
<i>Analog output signal</i>	0–5 V
<i>Connector</i>	Customer-defined
<i>Input</i>	7–15 VDC
<i>Current, typical</i>	70 mA
<i>Sample rate</i>	to 8 Hz

See equivalent meter specifications sheets for optics details.



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Specifications Sheet

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Revision History

Revision	Date	Revision Description	Originator
1	7/22/03	New spec sheet	H. Van Zee
2	9/10/03	Update specs	H. Van Zee
A	11/24/03	Spec sheet approved	H. Van Zee
A1	6/16/04	Update specifications	H. Van Zee, I. Walsh
B	6/29/04	Updates approved (DCR 400)	H. Van Zee, I. Walsh