

ECO Puck™

Miniature Optical Sensor

The Puck™ is a miniature version of the popular Environmental Characterization Optics (ECO) series sensors for OEM applications.

ECO sensors 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.

Applications

- Gliders
- Profiling floats
- AUVs



Available Configurations

Fluorometer (FL)

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

Combo Fluorometer-Turbidity Sensor (FLNTU)

Measures chlorophyll-a in $\mu\text{g/l}$ and turbidity in NTU.

Single-wavelength Scattering Sensor (bb)

Measures optical scattering at 117 degrees at your choice of 470, 532, or 650 nm wavelengths.

Volume Scattering Function Sensor (VSF)

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

Triple-Measurement Sensor (Triplet)

2 scattering and 1 fluorescence, 1 scattering and 2 fluorescence, or 3 fluorescence measurements.

Optical

See equivalent datasheets for optics details.

Electrical

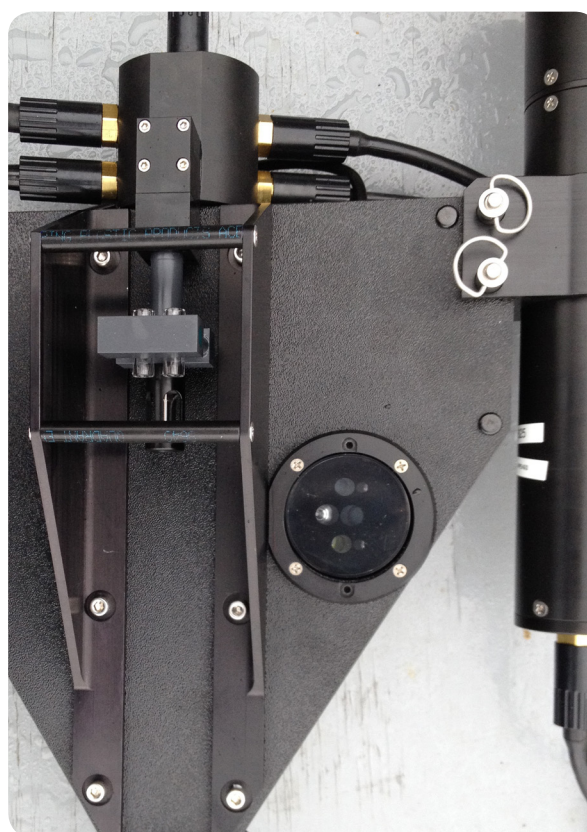
Digital output resolution	12 bit
RS-232 output	19200 baud
Connector	Customer Defined
Input	7–15 VDC
Input	7–15 VDC
Current, typical	80 mA
Sample rate	User selectable to 8 Hz

Environmental

Temperature Range	0–30 °C
Depth Rating	600 m (std)

Mechanical

Diameter	6.3 cm
Length	5.0 cm
Weight in air	0.28 kg
Weight in water	0.02 kg



ECO Puck™ integrated on a Profiler II optical profiler