

# c-ROVER 2000

## Optical Transmissometer

The c-Rover 2000 is an optical transmissometer designed for long-term deployment aboard profiling floats. Its 2000-meter rating meets the need to “park” a float at depth. The pressure housings are anodized aluminum, internally connected to the anode for optimal corrosion resistance, and provides enough volume to allow the instrument to be neutrally buoyant.

The c-Rover 2000 is optically and electronically comparable to the WET Labs C-Star. The C-Star is better suited for ship-based operations.

## Features

- Specifically designed for float applications
- Neutrally buoyant
- 2000m depth rating
- Ruggedized aluminum housing



## Optical

Wavelengths	450, 532, and 650 nm
Optical pathlength	25 cm
Acceptance angle	0.9 deg
Precision	0.003 m-1 @1 Hz

## Mechanical

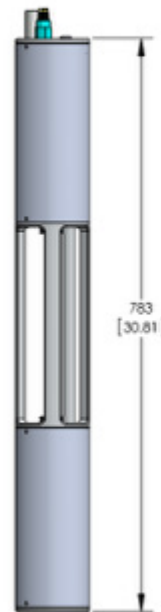
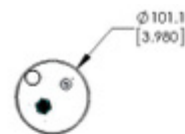
Length	78.3 cm
Diameter	10.1 cm
Weight in air	4.11 kg
Weight in water	0.028 kg
Internal air volume	2775 cc

## Electrical

Output resolution	14 bit
RS-232 output	19200 baud
Connector	MCBH-6-M (Peek)
Power input	7.5â€"15 VDC
Operating current:	35 mA
Sample rate	to 8 Hz

## Environmental

Rated Depth	2000 M
Temperature range (working)	-2-40 deg C
Temperature range (storage)	-20-50 deg C
Temperature stability 38-3-20 deg C	0.02% FS/deg C
Long term stability (6 hrs)	0.02% FS/Hr



## ESTIMATED BUOYANCY

Mass: 4550 g  
 Volume: 4435 mL  
 assumed density of seawater: 1.025 g/mL  
 Displacement: 4546 g  
 Resulting buoyancy: -4 g

**WET Labs**  
 outer dimensions  
 C-Rover CRV-2000