



## C-Rover

The C-Rover is an optical transmissometer designed for long-term deployment aboard profiling floats. The instrument's near-neutral buoyancy simplifies ballasting, and its 2000-meter rating meets the need to "park" a float at depth. Used in this manner, the flush-mounted optical windows are inherently resistant to fouling. The housing is anodized aluminum and acetal copolymer for optimal corrosion resistance.

The C-Rover is optically and electronically comparable to the WET Labs C-Star. The C-Rover is lighter weight; the C-Star is more rugged and better suited to ship-based operations.



| <b>Mechanical</b>       |                                | <b>Electrical</b>        |                         |
|-------------------------|--------------------------------|--------------------------|-------------------------|
| <i>Size</i>             | 2.48 x 31.6 in (6.3 x 80.1 cm) | <i>Power input</i>       | 7–15 VDC                |
| <i>Weight in air</i>    | 4.2 lbs (1.9 kg)               | <i>Current draw</i>      | 400 mW (typical)        |
| <i>Weight in water</i>  | < 0.2 lbs (90 g)               | <i>Data output</i>       | 0–5 volts               |
| <i>Rated depth</i>      | 2000 m                         | <i>Response time</i>     | 0.167 sec               |
| <i>Operating range</i>  | 0–30 deg C                     | <i>Temperature error</i> | 0.02 percent F.S./deg C |
| <hr/>                   |                                | <i>Linearity error</i>   | 0.1 percent F.S.        |
| <hr/>                   |                                |                          |                         |
| <b>Optical</b>          |                                |                          |                         |
| <i>Sensitivity</i>      | 1.25 mV                        |                          |                         |
| <i>Pathlength</i>       | 25 cm                          |                          |                         |
| <i>Wavelength</i>       | 660 nm                         |                          |                         |
| <i>Acceptance angle</i> | 1.46 deg                       |                          |                         |

*Specifications are subject to change without notice.*



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## Specifications Sheet

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### Revision History

| Revision | Date    | Revision Description                        | Originator  |
|----------|---------|---|-------------|
| 1        | 6/10/03 | Draft                                       | A. Derr     |
| 2        | 6/11/03 | Draft2, edits                               | I. Walsh    |
| A        | 12/1/03 | Approved spec sheet (DCR 351)               | A. Derr     |
| B        | 3/27/07 | Correct acceptance angle (ECN 254, DCR 514) | R. Zaneveld |
|          |         |   |             |