



C-Star

The C-Star incorporates a novel monolithic housing with a highly integrated opto-electronic design to provide a low cost, compact solution for underwater measurements of beam transmittance. The instrument is designed to operate by submersion or with an optional flow tube for pumped applications. It can be used in profiling, moored, or underway applications. The C-Star's analog output allows easy interfacing to a wide variety of small battery-powered CTDs and loggers. A digital model is also available. The 25-cm pathlength C-Star can be built in aluminum or co-polymer plastic. The 10-cm pathlength C-Star is available in plastic only.



Mechanical

<i>25 cm pathlength</i>	18.5 x 2.5 x 3.7 in (47 x 6.4 x 9.3 cm)
<i>10 cm pathlength</i>	11.5 x 2.5 x 3.7 in (29.2 x 6.4 x 9.3 cm)
<i>Weight in air</i>	8 lbs (3.6 kg) (aluminum); 5 lbs (2.2 kg) (plastic)
<i>Weight in water</i>	6 lbs (2.7 kg) (aluminum); 2 lbs (0.9 kg) (plastic)

Optical

<i>Pathlength</i>	25 or 10 cm
<i>Wavelengths</i>	370, 470, 530 or 660 nm
<i>Bandwidth, 470, 530, 660 nm</i>	~ 20 nm
<i>Bandwidth, 370 nm</i>	~ 10–12 nm

Electrical

<i>Power input</i>	7–15 VDC
<i>Current draw</i>	< 40 mA (analog) < 80 mA (digital)
<i>Data output</i>	0–5 volts (analog) 0–4095 counts (digital)
<i>Time constant</i>	0.167 sec
<i>Temperature error</i>	0.02 percent F.S./deg C
<i>Linearity error</i>	0.1 percent F.S.

Environmental

<i>Rated depth</i>	600 m (plastic) 6000 m (aluminum)
<i>Temperature</i>	0–30 deg C

Specifications are subject to change without notice.



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Specifications Sheet

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Revision History

Revision	Date	Revision Description	Originator
A	12/01/99	Begin revision control	H. Van Zee
B	1/3/00	Update Optical Specifications	C. Moore
C	8/10/00	Correct Beam Divergence (DCR 53)	J. Kitchen
D	5/30/01	General Update (DCR 91)	H. Van Zee
E	5/29/03	Add digital capabilities (DCR 304)	H. Van Zee
F	6/23/03	Add 370 nm meter, correct green wavelength (DCR 310)	H. Van Zee
G	6/8/04	Update format (DCR 402)	H. Van Zee
H	3/4/05	Add temp range and depth rating (DCR 461)	H. Van Zee