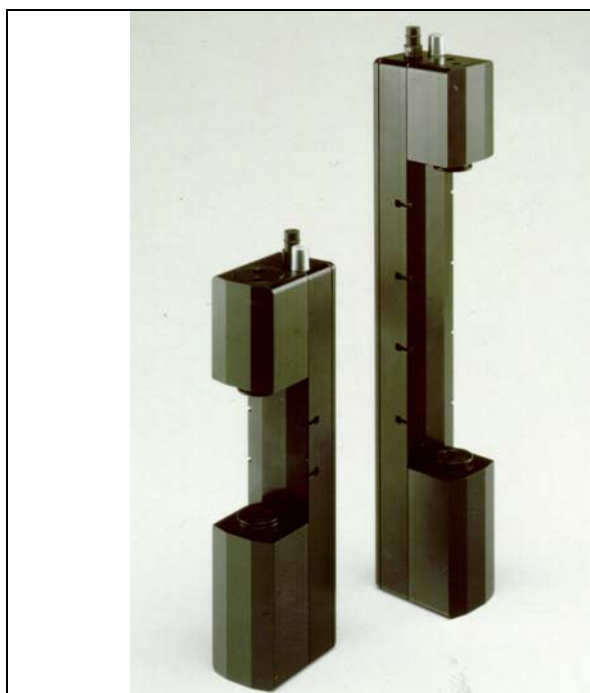


C-Star – Transmissometer



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 aluminium or co-polymer plastic. The 10-cm path length C-Star is available in plastic only.

Specifications:

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>	5 lbs (2.2 kg) (plastic) 8 lbs (3.6 kg) (aluminium)
<i>Weight in water</i>	2 lbs (0.9 kg) (plastic) 6 lbs (2.7 kg) (aluminium)

Optical

Pathlength	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

Power input	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

Environmental

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

REF – C-Star iss A APR 2009

Specifications subject to change without notice.