

RBR/egato³

CTD FOR GLIDERS AND AUVS

SMALL CTD, BIG POSSIBILITIES

The RBR/egato³ C.T.D offers a new world of measurement opportunities for gliders and AUVs. Optimised for flow dynamics, the instrument requires no pump to obtain fine structure measurements. The RBR/egato³ provides high accuracy while consuming less power due to modern electronic design and the lack of moving parts.

FEATURES



The following configurations are available:

- ▶ RBR/egato³ C.T.D
- RBR/egato³ C.T.D|fast16

2 Hz instrument, standard thermistor response, realtime data output 16Hz instrument, fast thermistor response, realtime data output

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Additional options:

▶ RBR/egato³ C.T.D.ODO



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The RBR/egato³ design is optimised for gliders and AUVs. The CTD is used to derive salinity, density, and sound velocity. The instrument ensures totally silent operation allowing for passive acoustic listening and turbulence measurements. Power consumption is 90% lower than that of traditional pumped CTD sensors and allows for substantially longer deployments. The RBR/egato³ is unaffected by surface contaminants or freezing conditions, comes pre-calibrated to account for static conductive elements, and is rated to 1000m.

Specifications

Physical

Storage External power Communication Clock drift Depth rating Housing	240 million readings 4.5 to 30V RS-232 ±60 seconds per year 1000m Plastic		Range Initial a Resolut Typical Time co
Length Width Height Top curvature Weight	195.8mm 63.8mm 78.6mm Ø220mm or Ø124mm ~0.8kg in air ~0.2kg in water	ł	Power c ≤1Hz sa ≥2Hz sa Sleep p

Conductivity

Range	0 to 85mS/cm
Initial accuracy*	±0.003mS/cm
Resolution	0.001mS/cm
Typical stability	±0.010mS/cm per year

* Vehicle dynamics and geometry may affect measurement accuracy.

Temperature

°C to 42°C 1.002° (-5 to +35°C)
.004 °C (+35 to +42°C)
00005°C
.002°C per year
s (standard), <0.1s (fast16)

Pressure

Initial accuracy±Resolution0Typical stability0	500 / 1000dbar 50.05% FS (full scale) 9.001% FS 9.05% FS 50.01s

consumption

≤1Hz sampling	22.8mJ per sample
≥2Hz sampling	46mW
Sleep power	180µW



RBR Ltd

+1 613 599 8900 info@rbr-global.com rbr-global.com

