

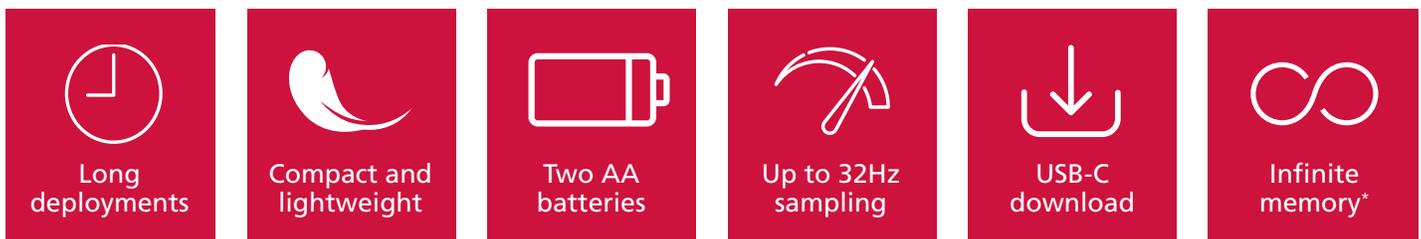
SMALL EXCHANGEABLE LOGGERS



HIGH PERFORMANCE,
LONG DEPLOYMENTS

The RBRsolo⁴x|2x and RBRduet⁴D.x|2x are compact, lightweight exchangeable loggers designed for high-precision oceanographic measurements in demanding environments. It combines exceptional accuracy and resolution using any standard AA battery chemistry. Engineered for durability in harsh marine conditions, these loggers delivers reliable, long-term performance across a wide range of oceanographic applications.

FEATURES



*not really, but we stopped counting at billions of samples.

Available configurations

- ▶ |fast32 up to 32Hz continuous sampling
- ▶ |deep depths up to 10000m

Compatible sensors

- ▶ RBRcoda³T
- ▶ RBRcoda³D
- ▶ RBRcoda³T.D
- ▶ RBRcoda T.ODO
- ▶ RBRcoda Tu
- ▶ RBRcoda chl-a
- ▶ RBRquadrante

SMALL EXCHANGEABLE LOGGER

COMPACT, ACCURATE, DEPENDABLE

Specifications

Physical

Configuration	RBRsolo ⁴ x	RBRduet ⁴ D.x
Storage	Infinite memory*	
Power	Any AA battery	
Communication	USB-C	
Clock drift	±60 seconds per year	
Max depth rating	1700m (plastic) 10000m (Ti)	
Diameter	25.4mm (plastic) 25mm (Ti)	
Length	305mm (pl) 319mm (Ti)	349mm (pl) 358mm (Ti)
Weight in air in water	184g (pl) 410g (Ti) 35g (pl) 255g (Ti)	219g (pl) 520g (Ti) 40g (pl) 340g (Ti)

*Not really, but we stopped counting at billions of samples

Dissolved oxygen

Measurement range	0-1000µmol/L
Calibrated range	0-500µmol/L concentration 0 – 120% saturation 1.5°C to 30°C temperature
Initial accuracy	Max of ±8µmol/L or ±5% fast Max of ±2µmol/L or ±1.5% standard Max of ±2µmol/L or ±1.5% slow
Resolution	<1µmol/L (saturation 0.4%) fast <0.5µmol/L (saturation 0.2%) standard <0.1µmol/L (saturation 0.04%) slow
Time constant	<1s fast, <8s standard, or <30s slow
Sampling rates	24hr to 1Hz
Output Values	Temperature (°C) Dissolved O ₂ concentration (µmol/L) Dissolved O ₂ concentration (salinity compensated, µmol/L) Dissolved O ₂ saturation (%) Dissolved O ₂ phase (°)

Pressure

Range ¹	plastic 20 / 100 /300 /1,000dbar Ti 2,000 / 6,000 / 10,000dbar
Initial accuracy ²	±0.05% full scale
Resolution	<0.001% full scale
Typical stability	±0.01% full scale / year
Time constant	<10ms

¹Recommended depth for wave measurements is less than 100m.

²±0.01% full scale available is available upon request.

Temperature

Range	-5°C to 35°C
Initial accuracy	±0.002°C
Resolution	<0.00005°C
Typical stability	±0.002°C / year
Time constant	<1s

Chlorophyll-a

Wavelength	470nm/695nm (excitation/emission)
Calibrated range*	0-50µg/L
Measurement range*	0-500µg/L
Detection limit	0.020µg/L
Optical	
Linearity, R ²	0.99
Initial accuracy	5%

*Scaled to the fluorescence response from a monoculture of *Thalassiosira weissflogii*.

Turbidity

Wavelength	880nm
Centroid angle	90°
Linearity, R ²	0.99
Initial accuracy	5%
Calibrated range	0 - 1000FTU
Measurement range	0 - 1500FTU ¹
Detection limit	0.005FTU
Optical backscatter	
Wavelength	880nm
Centroid angle	135°
Linearity, R ²	0.99
Initial accuracy	5%
Calibrated range	1000 - 4000FTU
Measurement range	0 - 20000FTU ²
Detection limit	2.0FTU



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