







SMALL PRESSURE LOGGER



COMPACT,
ACCURATE,
DEPENDABLE

The RBRsolo³ D is a compact, lightweight, and versatile single-channel instrument with a piezoresistive pressure sensor. It offers high performance, flexible measurement schedules, and long deployments. Low power consumption, large memory, and ability to endure harsh conditions make the RBRsolo³ D a perfect choice for many oceanographic applications.

FEATURES

 Long deployments	 Compact and lightweight	 Any AA battery	 Up to 32Hz sampling	 USB-C download	 Cabled RBRcoda ³ variant available
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The following configurations are available:

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| ▶ RBRsolo ³ D | pressure; up to 2Hz continuous sampling |
| ▶ RBRsolo ³ D fast | pressure; up to 8Hz, 16Hz, or 32Hz continuous sampling |
| ▶ RBRsolo ³ D tide16 | pressure; up to 16Hz bursts with tidal averaging |
| ▶ RBRsolo ³ D wave16 | pressure; up to 16Hz bursts with wave analysis |

Deep variant:

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|-------------------------------|---------------------|
| ▶ RBRsolo ³ D deep | depths up to 10000m |
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The RBRsolo³ D facilitates optimal measurement schedules, whether moored, towed, or profiling. Large storage capacity and reliable battery power facilitate long deployments with higher sampling rates. Downloads are quick with USB-C. A dedicated holder makes it simple to replace desiccant before each deployment. The calibration coefficients are stored with the instrument, and only one software tool, Ruskin, is required to operate it. Datasets can be read directly in Matlab, or exported to Excel, OceanDataView®, or text files.

Specifications

Physical

Storage	~65 million samples
Power	Any AA cell
Communication	USB-C
Clock drift	±60 seconds per year
Depth rating	up to 1000m (plastic), up to 10000m (Ti)
Diameter	25mm
Length	210mm
Weight	130g in air, 30g in water (plastic) 330g in air, 230g in water (Ti)

Pressure

Range*	20 / 50 / 100 / 200 / 500 / 1000dbar (plastic) 1000 / 2000 / 4000 / 6000 / 10000dbar (Ti)
Initial accuracy	±0.05% full scale
Resolution	<0.001% full scale
Typical stability	±0.05% full scale / year
Time constant	<10ms

*Recommended depth for wave measurements is less than 50m.

Deployment estimates

RBRsolo³ D

Sampling rates	24hr to 1s, and 2Hz		
Autonomy	Speed	Time	# samples
	2Hz	58 days	10M

RBRsolo³ D | fast16

Sampling rates	24hr to 1s, and 2Hz, 4Hz, 8Hz, 16Hz		
Autonomy	Speed	Time	# samples
	16Hz	47 days	64M

RBRsolo³ D | fast32

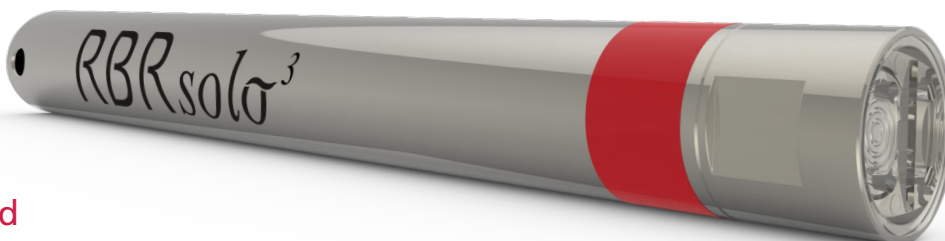
Sampling rates	24hr to 1s, and 2Hz, 4Hz, 8Hz, 16Hz, 24Hz, or 32Hz		
Autonomy	Speed	Time	# samples
	32Hz	24 days	65M

Realtime variants

Cabled realtime variants are available as the RBRcoda³ D.

Deep variant

Explore up to 10km deep with RBRsolo³ D | deep.



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