

TWO CHANNEL RECORDER

MEASURE MORE,
DEPLOY LONGER,
DOWNLOAD
FASTER



RBRduo³ dual channel loggers offer flexible measurement schedules, standard sampling up to 2Hz, optionally up to 32Hz, large memory, extra power for extended deployments, twist activation, and USB-C download for large data files.

FEATURES



The RBRduo³ is a dual channel logger available many configurations. Examples:

- ▶ RBRduo³ T.D measures temperature and depth
- ▶ RBRduo³ T.DO measures temperature and dissolved oxygen
- ▶ RBRduo³ C.T measures conductivity and temperature (salinity)

*For additional information on tide and wave recorders, please see the Tide and Wave data sheet.

Additionally, the RBRduo³ can be fitted with any two sensors:

- ▶ Temperature
- ▶ Depth
- ▶ Conductivity
- ▶ Tide
- ▶ Wave
- ▶ Dissolved O₂
- ▶ Turbidity
- ▶ Fluorescence
- ▶ T-string
- ▶ pH
- ▶ ORP (RedOx)
- ▶ PAR

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The RBRduo³ makes it easy to configure the optimum sampling regime for your measurements. The large data storage capacity and fast download ability facilitate long deployments with higher sampling rates. Almost every sensor from RBR can be interfaced to the RBRduo³. Dataset export to Matlab, Excel, OceanDataView®, or text files makes post processing with your own algorithms effortless.

Specifications

Physical

Storage:	240M readings
Power:	8 AA cells
Communication:	USB-C or RS-232/485
Clock drift:	±60 seconds/year
Depth rating:	750m (plastic), 10,000m (titanium)
Housing:	Plastic or titanium
Size:	~340mm x Ø63.25mm without sensors
Weight:	Configuration dependent
Sampling rate:	24hr to 1s and 2, 4, 8, 16, 24, or 32Hz
Averaging rate:	>1s, 2, 4, 8, 16, 24, or 32Hz
Averaging duration:	1s to 24h

Conductivity (up to 6000m)

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

Temperature

Range:	-5°C to 35°C
Initial accuracy:	±0.002°
Resolution:	0.00005°C
Time constant:	~1s (standard), ~0.1s (option)
Typical stability:	0.002°C per year

Depth

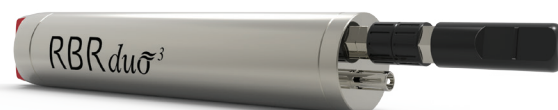
Range:	20 / 50 / 100 / 200 / 500 / 750 1000 / 2000 / 4000 / 6000 10,000m (dbar)
Initial accuracy:	±0.05% FS (full scale)
Resolution:	0.001% FS
Time constant:	<0.01s
Typical stability:	0.05% FS

Dissolved Oxygen (OxyGuard®)

Range:	0 to 600%
Accuracy:	±2% O ₂ saturation (5°C to 25°C)
Resolution:	1% of saturation
Response time:	~10s, 90% step change @ 20°C

Options

- ▶ Wi-Fi communication
- ▶ |fast8, |fast16 or |fast32Hz sampling for profiling
- ▶ External data and power connector with USB, RS-232, or RS-485



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