RBR

MEASURE THE BLUE PLANET

rbr-global.com

TWO-CHANNEL LOGGER

MEASURE MORE,
DEPLOY LONGER,
DOWNLOAD FASTER

The RBR*duo*³ instruments can integrate almost any two sensors from RBR, offering high accuracy, flexible schedules, USB-C download, Wi-Fi communication, and twist activation. Variants with pressure, temperature, conductivity, radiometer, PAR, and turbidity sensors are also available in titanium housing for deep applications (| deep), designed to endure harsh conditions.

FEATURES

- Wi-Fi ready
- Twist activation
- 240M readings
- Up to 32Hz sampling
- USB-C download
- Realtime communications

The RBR*duo*³ can integrate any two of the following sensors:

- Conductivity (C)
- Temperature (T)
- Pressure (D)
- Dissolved oxygen (DO)
- Optical dissolved oxygen (ODO)
- Photosynthetically active radiation (PAR)
- Radiometer (rad)
- Turbidity (Tu)
- Fluorescence (Fl)
- Voltage
- Transmittance
- pH
- ORP
- CH_4
- CO_2

Examples:

RBR*duo*³ T.D	temperature, pressure
RBR*duo*³ C.T	conductivity, temperature
RBR*duo*³ T.Fl	temperature, fluorescence

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The RBR*duo*³ instruments facilitate 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	240M readings
Power[1]	8 AA cells
External power	4.5 to 30V
Communication	USB-C or RS-232/485
Clock drift	±60 seconds/year
Housing	Plastic or titanium
Diameter	63.3mm (plastic), 60.3mm (Ti)
Length	Configuration dependent
Weight	Configuration dependent
Max depth rating	Up to10000m (configuration dependent)
Sampling rate	2Hz; options up to 32Hz (configuration dependent)

[1] Lithium thionyl chloride batteries are only recommended for the RBR*duo*³ C.T and RBR*duo*³ T.D. Use alkaline or lithium iron batteries for all other configurations.

Options

- Wi-Fi communication
- External data and power connection via connectorised end-caps
- |fast8, |fast16, or |fast32 variants for profiling
- |tide16, |wave16 variants with wave burst and tidal averaging
- |deep variants in titanium housing for depths up to 10000m

Conductivity

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

Temperature

Range[2]	-5°C to 35°C
Initial accuracy	±0.002°C
Resolution	<0.00005°C
Typical stability	±0.002°C / year
Time constant	<0.1s |fast, <1s standard

[2] A wider temperature range is available upon request. Contact RBR for more information.

Pressure

Range[3]	
Plastic	20 / 50 / 100 / 200 / 500 / 750dbar
Ti	1000 / 2000 / 4000 / 6000 / 10000dbar
Initial accuracy	±0.05% full scale
Resolution	<0.001% full scale
Typical stability	±0.05% full scale per year
Time constant	<10ms

[3] Recommended depth for wave measurements is less than 50m.

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