

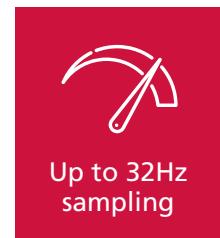
MULTI-CHANNEL LOGGER (3-5)



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The RBRconcerto³ multi-channel instruments support three to five sensors on a single platform. A diversity of sensor configurations allows the instrument to be fine-tuned for a wide variety of applications. Variants with pressure, temperature, conductivity, radiometer, PAR, and turbidity sensors are also available in titanium housing, designed to endure harsh conditions.

FEATURES



Available sensors

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

Examples

- ▶ RBRconcerto³ C.T.Tu conductivity, temperature, turbidity
- ▶ RBRconcerto³ C.T.D.PAR conductivity, temperature, pressure, photosynthetically active radiation
- ▶ RBRconcerto³ C.T.D.ODO.Tu conductivity, temperature, pressure, optical dissolved oxygen, turbidity

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RBRconcerto³ 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 | |
| Plastic | 63.3mm |
| Ti | 60.3mm |
| Length | Configuration dependent |
| Weight | Configuration dependent |
| Depth rating | Up to 6000m (configuration dependent) |
| Sampling rate | 2Hz; options up to 32Hz |
| Wi-Fi connectivity | <750m loggers ² |

¹Lithium thionyl chloride batteries are only recommended for the RBRconcerto³ C.T.D. Use alkaline or lithium iron batteries for all other configurations.

²Option available for titanium models rated up to 2000m



Conductivity

| | |
|-------------------|----------------------|
| Range | 0-85mS/cm |
| Initial accuracy | ±0.003mS/cm |
| Resolution | <0.0001mS/cm |
| Typical stability | ±0.010mS/cm per year |

Temperature

| | |
|--------------------|---------------------------|
| Range ³ | -5°C to 35°C |
| Initial accuracy | ±0.002°C |
| Resolution | <0.00005°C |
| Typical stability | ±0.002°C per year |
| Time constant | <0.1s fast, <1s standard |

³A wider temperature range is available upon request.
Contact RBR for more information.

Pressure

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

Options

- External data and power connection via connectorised end-caps
- |fast8 or |fast16 variants for profiling
- |deep variants in titanium housing for depths up to 6000m

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