MULTI-CHANNEL LOGGER (3-5)

MEASURE MORE,
DEPLOY LONGER,
DOWNLOAD FASTER

The RBR*concerto*³ 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

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

The RBR*concerto*³ can integrate three to five of the following sensors:

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

Examples:

RBR*concerto*³ C.T.Tu	conductivity, temperature, turbidity
RBR*concerto*³ C.T.D.PAR	conductivity, temperature, pressure, photosynthetically active radiation
RBR*concerto*³ C.T.D.ODO.Tu	conductivity, temperature, pressure, optical dissolved oxygen, turbidity

MULTI-CHANNEL LOGGER (3-5)

MEASURE MORE, DEPLOY LONGER, DOWNLOAD FASTER

RBR*concerto*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	
Plastic	63.3mm
Ti	60.3mm
Length	Configuration dependent
Weight	Configuration dependent
Depth rating[2]	Up to 6000m (configuration dependent)
Sampling rate	2Hz; options up to 32Hz

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

[2] The depth rating for RBR*concerto*³ Tx may be up to 8000m.

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°
Resolution	<0.00005°C
Typical stability	±0.002°C per year
Time constant	<0.1s |fast, <1s standard

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

Pressure

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

Options

- Wi-Fi communication
- 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

RBR Ltd

+1 613 599 8900
info@rbr-global.com
rbr-global.com