

SMALL REALTIME SENSORS



LOW POWER,
HIGH PERFORMANCE

The RBRcoda³ small smart sensors are a family of cabled instruments with high accuracy, low power consumption, and ability to endure harsh conditions. The realtime streaming sensors are easy to integrate into any RBR multi-parameter instrument, or connect directly via RS-232. Select from several | fast sampling variants, depending on your needs.

FEATURES



High accuracy



Low power consumption



Long deployments



Compact and lightweight



RS-232 output



Depths up to 6000m

The following configurations are available:

- ▶ RBRcoda³ T temperature, up to 32Hz continuous sampling
- ▶ RBRcoda³ D pressure, up to 32Hz continuous sampling
- ▶ RBRcoda³ D|tide16 tide, up to 16Hz burst sampling
- ▶ RBRcoda³ T.D temperature and depth, up to 32Hz continuous sampling
- ▶ RBRcoda³ T.D|tide16 temperature and tide, up to 16Hz burst sampling

The RBRcoda³ T |deep, RBRcoda³ D |deep, and RBRcoda³ T.D |deep sensors have titanium housing, which resists all forms of marine corrosion and is suitable for deepwater applications. All RBR instruments within the |deep family provide accurate and stable measurements in the most challenging environments.

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The RBRcoda³ realtime sensors are easy to install and operate. They are a perfect choice for many oceanographic and limnology applications, such as borehole monitoring, remotely operated underwater vehicles, stream gauging, or harbour water levels. These completely sealed units are available in plastic or titanium housings to accommodate shallow or deep deployments. Attach an MCIL connector with serial and power lines, and the data will stream.

Specifications

Physical

Parameter	RBRcoda ³ T	RBRcoda ³ D	RBRcoda ³ T.D
Connector	MCBH-6-MP	MCBH-6-MP	MCBH-6-MP
Housing	Plastic or Ti	Plastic or Ti	Plastic or Ti
Diameter	~25mm	~25mm	~25mm
Length (with the connector)	~245mm ~230mm slow deep	~235mm	~300mm
Weight (plastic)	160g in air, 60g in water	170g in air, 70g in water	190g in air, 70g in water
Weight (Ti)	390g in air, 280g in water	370g in air, 270g in water	390g in air, 280g in water
Sampling rate	1Hz slow 2Hz standard 8Hz fast8 16Hz fast16 32Hz fast32	2Hz standard 8Hz fast8 16Hz fast16, tide16 32Hz fast32	2Hz standard 8Hz fast8 16Hz fast16, tide16 32Hz fast32

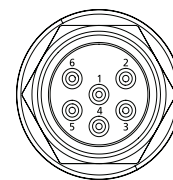
Power

Supply voltage	6V to 18V (12V nominal)
Sampling	10mA/120mW

Interface

RS-232 polled or autonomous streaming, or analog voltage output

MCBH-6-MP connector pinout



- ▶ Pin 1 - Ground
- ▶ Pin 2 - Power
- ▶ Pin 3 - Serial data from sensor
- ▶ Pin 4 - Serial data to sensor
- ▶ Pin 5 - N/C
- ▶ Pin 6 - N/C

Temperature

Range*	-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, <15s slow
Max depth rating	1700m (plastic), 6000m (Ti)

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

Pressure

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



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