

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 |

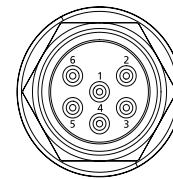
Power

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

Interface

RS-232 polled or autonomous streaming

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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