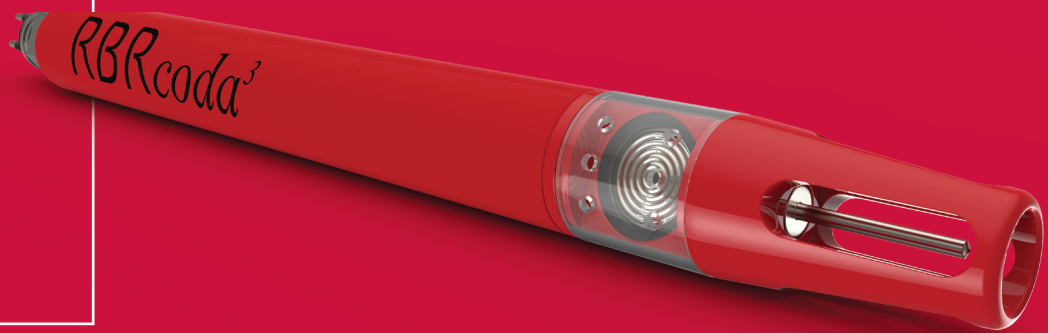


## SMALL REALTIME SENSORS

TEMPERATURE,  
PRESSURE,  
DISSOLVED  
OXYGEN,  
PAR



The RBRcoda<sup>3</sup> family are realtime streaming sensors. When a cable is attached, engineering values are streamed out the serial connection at the specified sampling speed. The sensor offers standard sampling up to 2Hz, optionally up to 32Hz, and RS-232 output.

### FEATURES



Compact and  
lightweight



High accuracy



Low power  
consumption



RS-232 output

The RBRcoda<sup>3</sup> variants are realtime streaming sensors. When a cable is attached, engineering values are streamed out the serial connection at the specified sampling speed. With the same measurement specifications as the RBRsolo<sup>3</sup> and RBRduet<sup>3</sup>, these duet sensors make integration of high quality data simple.

The RBRcoda<sup>3</sup> is available in a number of variants, for example:

- ▶ RBRcoda<sup>3</sup> T                    temperature, up to 2Hz continuous sampling
- ▶ RBRcoda<sup>3</sup> D                    depth, up to 2Hz continuous sampling
- ▶ RBRcoda<sup>3</sup> D|tide16            tides, up to 16Hz continuous or burst sampling
- ▶ RBRcoda<sup>3</sup> DO                    dissolved oxygen (Oxyguard®), up to 16Hz continuous sampling
- ▶ RBRcoda<sup>3</sup> PAR                    PAR recorder
- ▶ RBRcoda<sup>3</sup> T.D                    temperature and depth, up to 2Hz continuous sampling

## SMALL REALTIME SENSORS

### Temperature, pressure, dissolved oxygen, PAR

Realtime variants are ideal for streaming high accuracy measurements into another system. Whether for borehole monitoring or ROV, stream gauging or harbour water levels - these instruments are trivial to install and operate. The units are completely sealed and are available in OSP or Titanium housings to accommodate shallow or deep deployment. Attach an MCIL connector with serial and power lines and the data will stream.

### Specifications

#### Physical

Storage:	No onboard memory
External Power:	Requires 6 – 18V DC ~3mA
Communication:	RS-232
Clock drift:	±60 seconds/year
Diameter:	25.4mm
Data:	Polled or autonomous streaming
Baud rate:	1200 to 115k
Connector:	MCBH-6MP

#### Length, Weight (air/water)

RBRcoda <sup>3</sup> T	270mm, (OSP) 160g/60g, (Ti) 360g/260g
RBRcoda <sup>3</sup> D	240mm, (OSP) 170g/70g, (Ti) 370g/270g
RBRcoda <sup>3</sup> DO	277mm, (OSP) 190g/70g, (Ti) 298g/~163g
RBRcoda <sup>3</sup> PAR	270mm, (OSP) 460g/240g, (Ti) 630g/~201g
RBRcoda <sup>3</sup> T.D	300mm, (OSP) 190g/70g, (Ti) 390g/280g

#### Temperature

Range:	-5°C to 35°C
Accuracy:	±0.002°C
Resolution:	<0.00005°C
Time Constant:	~1s (standard) ~0.1s (optional)
Drift:	0.002°C/year
Depth rating:	(OSP) 1700m, (Ti) 10,000m

#### Depth

Range:	(OSP) 20 / 50 / 100 / 200 / 500 / 1000 dbar; (Ti) 1000 / 2000 / 4000 / 6000 dbar
Accuracy:	±0.05% full scale (FS)
Resolution:	<0.001% FS
Time constant:	<10ms
Typical stability:	0.05% FS

#### Sampling

Sampling rate:	24hr to 1s and 2, 4, 8 or 16Hz
Duration:	1s to 24h
Interval:	1s to 24h

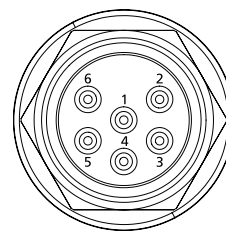
#### Dissolved Oxygen (Oxyguard<sup>®</sup>)

Range:	0 to 600%
Accuracy:	±2% O2 saturation (5°C to 25°C)
Resolution:	1% of saturation
Depth rating:	1700m

#### PAR

Range:	400nm to 700nm
Depth rating:	560m

### Male Pin Face View



- ▶ Pin 1 - Ground
- ▶ Pin 2 - Power 6V - 18V
- ▶ Pin 3 - Serial data from sensor
- ▶ Pin 4 - Serial data to sensor
- ▶ Pin 5 - No connect
- ▶ Pin 6 - No connect

### RBR Ltd

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