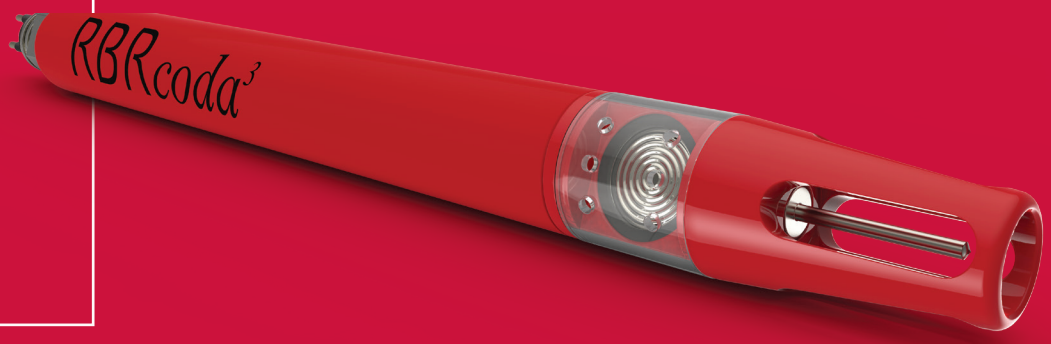
SMALL REALTIME SENSORS

TEMPERATURE, PRESSURE, DISSOLVED OXYGEN, PAR



The RBR*coda*³ 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 RBR*coda*³ 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 RBR*solo*³ and RBR*duet*³, these duet sensors make integration of high quality data simple.

The RBR*coda*³ is available in a number of variants, for example:

RBR*coda*³ T	temperature, up to 2Hz continuous sampling
RBR*coda*³ D	depth, up to 2Hz continuous sampling
RBR*coda*³ D|tide16	tides, up to 16Hz continuous or burst sampling
RBR*coda*³ DO	dissolved oxygen (Oxyguard®), up to 16Hz continuous sampling
RBR*coda*³ PAR	PAR recorder
RBR*coda*³ 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)

RBR*coda*³ T	265mm, (OSP) 132g/~3g, (Ti) 292g/~163g
RBR*coda*³ D	235mm, (OSP) 132g/~3g, (Ti) 292g/~163g
RBR*coda*³ DO	272mm, (OSP) 138g/~3g, (Ti) 298g/~163g
RBR*coda*³ PAR	265mm, (OSP) 460g/~31g, (Ti) 630g/~201g
RBR*coda*³ T.D	295mm, (OSP) 152g/~3g, (Ti) 352g/~203g

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 / 10,000 dbar
Accuracy:	±0.05% full scale
Resolution:	<0.001% full scale
Time constant:	<10ms
Typical stability:	~0.1%/year

tide16

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

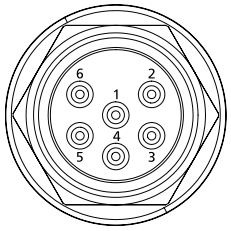
Dissolved Oxygen (Oxyguard®)

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

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