

RBRcoda³ T.ODO

TEMPERATURE AND OPTICAL DISSOLVED OXYGEN RBRcoda^s T.ODO CE Depth rating:

LOW POWER, **HIGH STABILITY**

The RBRcoda³ T.ODO is an optode with high accuracy and low power consumption. The Ifast variant has a time constant of only 1s and is well suited for profiling applications. The slow version has a protective layer to facilitate automated cleaning by a wiper, which keeps it biofouling-free during long-term moored deployments.

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6000m

Serial number

FEATURES



The following configurations are available:

- RBRcoda³ T.ODO
- RBRcoda³ T.ODO | slow
- ▶ RBRcoda³ T.ODO|fast

temperature and optical dissolved oxygen, 8s time constant temperature and optical dissolved oxygen, 30s time constant, used with wiper temperature and optical dissolved oxygen, 1s time constant



RBRcoda³ T.ODO

TEMPERATURE AND OPTICAL DISSOLVED OXYGEN

LOW POWER, HIGH STABILITY

Specifications

Physical

Connector	MCBH-6-MP
Depth rating	6000m
Diameter	28mm
Length	~125mm (instrument only)
	~160mm (instrument plus connector)
Weight	180g in air, 100g in water

Power

Supply voltage 7 – 15V (12V nominal) Sampling current 10mA for 300ms (36mJ/sample) at 12V Sleep current 58µA

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

Dissolved oxygen

Calibrated range	0-500 μ M concentration 0 – 120% saturation 1.5°C to 30°C temperature
Initial accuracy	Maximum of $\pm 8\mu$ M or $\pm 5\%$
Resolution	<1 μ M (saturation 0.4%)
Time constant	<1s fast, <8s standard, ~30s slow
Sampling rates	24hr to 1Hz

Temperature

Range	-5°C to 35°C
Initial accuracy	±0.002°C
Resolution	<0.00005°C
Typical stability	±0.002°C / year
Time constant	<1s
lime constant	<15

Output Values

- Temperature (°C)
- Dissolved O₂ concentration (µmol/L)
- Dissolved O₂² concentration (salinity compensated, μmol/L)
 Dissolved O₂ saturation (%)
- Dissolved O_2^{\uparrow} phase (°)



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