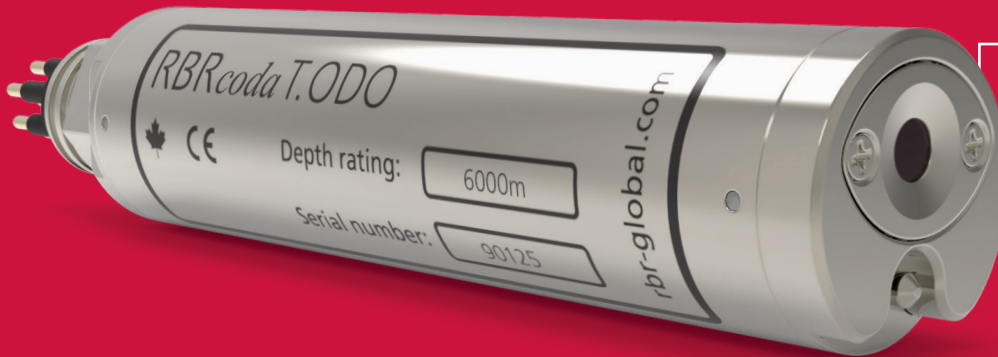


# TEMPERATURE & DISSOLVED OXYGEN SENSOR



RBRcoda T.ODO |slow  
RBRcoda T.ODO  
RBRcoda T.ODO |fast

The RBRcoda T.ODO is an optode with exceptional performance. With a standard accuracy of 8  $\mu\text{mol/l}$  but a power consumption of only 36 mJ/sample, it is without a peer in optical oxygen measurement tools. Rated to 6000m depths and trivial to integrate, it is one solution for all deployments. Available as |slow (30s  $\tau$ ), standard (8s  $\tau$ ), and |fast (1s  $\tau$ ) variants. The |slow version has a protective layer over the foil to allow it to be cleared of biofouling for long-term moored applications.

## Specifications

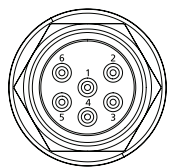
### Physical

Connector:	MCBH-6MP
Depth rating:	6000m
Size:	$\varnothing 28\text{mm} \times 116\text{mm}$
Weight in air:	~170g

### Power

Supply voltage:	7 – 15V (12V nominal)
Sampling current:	10mA for 300ms (36mJ/sample)
fast sampling current:	9.5mA for 700ms (80mJ/sample)
Quiescent current:	<10 $\mu\text{A}$

### Male Pin Face View



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

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### Oxygen

Calibrated range:	0-500 $\mu\text{M}$ concentration
Calibrated range:	0 – 120% saturation
Calibrated range:	1.5°C to 25°C temperature
Accuracy:	Maximum of $\pm 8\mu\text{M}$ or $\pm 5\%$
Resolution:	<1 $\mu\text{M}$ (saturation 0.4%)
Time constant:	~1s  fast, ~8s standard, ~30s  slow
Sampling rates:	24hr to 1Hz

### Temperature

Range:	-5°C to 35°C
Accuracy:	$\pm 0.002^\circ\text{C}$
Resolution:	<0.00005°C
Time constant:	<1s
Typical stability:	0.002°C/year

### Interface

- RS-232 polled or autonomous streaming

### Output Values

- Temperature ( $^\circ\text{C}$ )
- Dissolved  $\text{O}_2$  concentration ( $\mu\text{mol/L}$ )
- Dissolved  $\text{O}_2$  concentration (salinity compensated ( $\mu\text{mol/L}$ ))
- Dissolved  $\text{O}_2$  saturation (%)
- Dissolved  $\text{O}_2$  phase ( $^\circ$ )