

TEMPERATURE AND OPTICAL pH



**LOW POWER,
6000m rated, COMPACT DESIGN**

The RBRcoda OpH is a real-time optical pH sensor. Its dynamic range (7–9pHT) is optimised for measurement of oceanographic total pH scale. Its compact design, fast sampling rates, low power consumption, and high depth rating suit a wide variety of applications.

FEATURES



High
sensitivity



Low power
consumption



Optimised
dynamic range



Compact and
lightweight



RS-232
output



Depths up to
6000m

An optical pH sensor with built-in temperature measurement, designed for short- to mid-term deployments. Low-profile and robust, the RBRcoda OpH integrates easily with RBR instruments for ship-based profiling, or standalone integrated into floats, gliders, and AUVs.

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Specifications

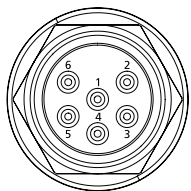
Physical

Connector	MCBH-6-MP
Housing	Titanium
Depth rating	6000m
Diameter	28mm
Length	~125mm (instrument only) ~160mm (instrument plus connector)
Weight	180g in air, 110g in water
Sampling rate	24hr to 1Hz

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	<1s

* Foils should not be allowed to freeze.

pH

Measurement range	7–9pH
Initial accuracy	±0.05pH within pH7.5–9
(at 35PSU and atmospheric pressure) *	±0.1pH within pH7–7.5
Resolution	±0.003pH

* For salinity and pressure dependence see [RBR Instrument Guide: Sensors](#).

Power

Supply voltage	4.5 to 30V (12V nominal)
Power	75mJ/sample (0.5Hz or slower) 4mA (48mW) (1Hz or faster)
Sleep current	10µA



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