RBR

MEASURE THE BLUE PLANET

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RBR*coda* OpH

TEMPERATURE AND OPTICAL pH



LOW POWER, 6000m rated, COMPACT DESIGN

The RBR*coda* OpH is a realtime optical pH sensor. Its dynamic range (7–9pH_T) is optimised for measuring the oceanographic total pH scale. A compact design, low power consumption, and high depth rating support 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, for short- to mid-term deployments. Compact and robust, the RBR*coda* OpH pairs seamlessly with RBR instruments for a consolidated moored deployment solution or offers a standalone option for integration into third-party platforms.

TEMPERATURE AND OPTICAL pH

LOW POWER, COMPACT DESIGN

Specifications

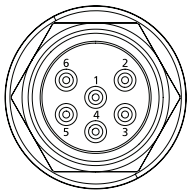
Physical

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	24h to 2Hz

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

[1] Do not allow the foil to freeze.

pH

Measurement range	7–9pH$_T$
Initial accuracy (at 35PSU and atmospheric pressure) [1]	±0.05pH within pH 7.5–9
Resolution	<0.003pH
Time constant [2]	<80s

[1] For salinity and pressure dependence, see RBR Instrument Guide: Sensors.
[2] Measured at 25°C.

Power

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



RBR Ltd

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