





The RBRcoda Tu is a realtime turbidity sensor with two independent optical channels for optimising linearity and sensitivity. Its high dynamic range permits exposure to full sunlight with exceptionally low detection limits, while fast sampling rates, low power consumption, and high depth rating have been tailored for use in a wide variety of applications.

FEATURES













The turbidity channel of the RBRcoda Tu ensures high sensitivity in the low range (0-1000FTU), while the optical backscatter channel is designed for high-turbidity applications (up to 20000FTU). All optical components of the RBRcoda Tu are robust and durable, selected to minimise aging due to UV/sunlight exposure, and thus show no change in properties over extended deployments. Its sapphire windows facilitate automated cleaning by a wiper to keep them free of biofouling during long-term moored deployments.





TURBIDITY SENSOR

LOW POWER, DYNAMIC RANGE

Specifications

Physical

Sampling rate

Connector
Communications
Housing
Depth rating
Diameter
Length
Weight
Operating temperature range

MCBH-6-MP RS-232 Titanium 6000m 25mm 70mm (105mm

70mm (105mm with connector) 110g in air, 70g in water

-5°C to +35°C Up to 32Hz



Turbidity

Wavelength 880nm
Centroid angle 90°
Linearity, R² 0.99
Initial accuracy 5%
Calibrated range 0 - 1000FTU

Calibrated range 0 - 1000FTU

Measurement range 0 - 1500FTU 1

Detection limit 0.005FTU

Turbidity (optical backscatter)

Wavelength 880nm
Centroid angle 135°
Linearity, R² 0.99
Initial accuracy 5%

Calibrated range 1000 - 4000FTU 0 - 20000FTU 2
Detection limit 2.0FTU

Power

Supply voltage 4.5V to 30V (12V nominal)

Power 2.3mJ/sample (4Hz or slower)
42mW (8Hz or faster)

Sleep current 10µA at 12V

MCBH-6-MP connector pinout



- Pin 1 GroundPin 2 Power
- ▶ Pin 3 Serial data from sensor
- ► Pin 4 Serial data to sensor
- ▶ Pin 5 N/C▶ Pin 6 N/C

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¹ Response becomes non-linear above 1000FTU.

² Response becomes non-linear below 500FTU and above 15000FTU.