

# Optical Dissolved Oxygen Sensor

RBRoptode

## Specifications

### Physical

Connector: MCBH-6MP  
 Depth rating: 6000m (titanium)  
 250m (POM)  
 Size:  $\varnothing$ 28mm x 116mm  
 Weight in air: ~170g (titanium)  
 ~100g (POM)

### Power

Supply voltage: 7 – 15V (12V nominal)  
 Sampling current: 10mA for 300ms (36mJ/sample)  
 Quiescent current: <10 $\mu$ A

### Oxygen

Range: 0-500 $\mu$ M (saturation 0 – 150%)  
 Resolution: <1 $\mu$ M (saturation 0.4%)  
 Initial accuracy: Maximum of  $\pm$ 8 $\mu$ M or  $\pm$ 5%  
 Time constant: ~8s  
 Sampling rates: 1Hz or slower

### Temperature

Range: -5 $^{\circ}$ C to 35 $^{\circ}$ C  
 Accuracy:  $\pm$ 0.002 $^{\circ}$ C  
 Resolution: <0.00005 $^{\circ}$ C

### Interfaces

- RS232
- Analog 0 – 5V



### 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 - 0 – 5V analog output

