



RINKO-EC - Dissolved Oxygen Eddy Covariance

Fast optical DO sensor for microscale measurements

- Extremely fast response (90%: less than 0.5 s from air to water)
- Eddy covariance measurements of temperature and DO
- Easy DO sensing foil replacement by users
- Easy integration

Aquatic eddy covariance is a powerful technique to measure benthic fluxes. The based on the optical (phosphorescence) principle which is now widely known response oxygen sensor with high accuracy. The robust RINKO EC is designed covariance measurements. The response time of the sensing foil is less than water at 25 °C). The foil life-time is more than 200 hours, which allows at continuous measurements of dissolved oxygen. Moreover, the foil can be replaced easily by users. The RINKO EC is an advantageous tool for eddy covariance measurements in many aquatic environments.

Specifications:

Range	DO	Air saturation: 0 to 200% (calibration range: 3 to 30 $^\circ C)$
	Temperature	-3 to 45 °C (calibration range: 3 to 31 °C)
Accuracy	DO	Air saturation: ±1% (¹)
	Temperature	±0.02 °C
Response Time (90%)	DO	< 0.5 s (from air to water at 25°C)
	Temperature	< 0.5 s (from air to water at 5°C)
DO Sensing Foil Life-Time	200 h continuous operation	
Signal Output	0 – 5 V analogue	
Pre-Heat time	5 s	
Power	9.6 – 24 Vdc (12Vdc recommended	
Current drain at 12 Vdc (typical)	<20mA	
Housing Material	Titanium (grade 2)	
Weight & Dimensions	0.6 kg (air) / 0.3 kg (water) OD 54mm x 341mm	
Depth Rating	50 m	
Connector	MCBH8MTI or AG306-HP	

Swale Technologies Ltd

6 Greenacres, Monument Park, Chalgrove, Oxfordshire OX44 7RW, UK Tel: +44 (0)1865 582265 - Sales@swaletechnologies.com - www.swaleocean.co.uk