



TEMPERATURE & OXYGEN RECORDER



The RBR*duet*³ T.ODO is a small and versatile temperature and optical oxygen logger with exceptional performance for long deployments in coastal or deep environments. The marine thermistor provides the highest accuracy temperature measurement with 1s time constant. The optical oxygen sensor provides high stability for very long deployments where accurate DO measurements are critical. The |slow version has a protective layer over the optical foil to allow it to be cleared of biofouling for long-term moored applications. The logger is designed with large memory for extended deployments, and USB-C download for large data files.

FEATURES













The RBRduet³ T.ODO recorder is available in the following configurations:

- ► RBRduet³ T.ODO
- ► RBRduet³ T.ODO|slow
- ► RBR*duet*³ T.ODO|fast

temperature and dissolved oxygen, 8s time constant

temperature and dissolved oxygen, 30s time constant, used with wiper

temperature and dissolved oxygen, 1s time constant

The RBR*duet*³ T.ODO series has two channels: temperature and optical dissolved oxygen. Its large data storage capacity is matched to high battery capacity to facilitate long deployments with higher sampling rates. Downloads are quick with USB-C. A dedicated desiccant holder makes it simple to replace desiccant before each deployment. The calibration coefficients are stored with the logger and only one software tool, Ruskin, is required to operate the loggers. Datasets can be read directly in Matlab, or exported to Excel or ASCII files.



RBRduet³ T.ODO

TEMPERATURE

& OXYGEN RECORDER

LOW POWER AND HIGH STABILITY



Compact and lightweight



Depths up to 6000m



20M measurements



Optical stability



USB-C download



Cabled RBRcoda³ variant available

3BR duer

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Specifications

Physical

Power: Any AA cell Communication: USB-C

Clock drift: ±60 seconds/year
Diameter: ~28mm
Length: ~300mm

Weight (air): 200g (OSP), 400g (Ti) Weight (water): 20g (OSP), 240g (Ti)

Temperature

Range: -5°C to 35°C
Accuracy: ±0.002°C
Resolution: <0.00005°C
Time Constant: <1s
Typical stability: 0.002°C/year

Oxygen

Calibrated range: 0-500µM concentration
Calibrated range: 0 - 120% saturation
Calibrated range: 1.5°C to 25°C temperature
Accuracy: Maximum of ±8µM or ±5%
Resolution: <1µM (saturation 0.4%)
Time constant: 20s Island

~30s |slow Sampling rates: 24hr to 2Hz

Deep variant

Explore up to 6000m deep with the RBRduet³ T.ODO | deep.



