

SMALL TWO CHANNEL RECORDER

TEMPERATURE & DEPTH



The RBRduet³ T.D is RBR's accurate, small, and versatile dual channel temperature and depth recorder. The standard temperature and depth logger samples up to 2Hz, and optionally up to 32Hz. Tide and wave versions are available. The loggers are designed with large memory for extended deployments, and USB-C download for large data files.

FEATURES

| | | | | | |
|--|---|---|--|---|--|
|  Compact and lightweight |  Depths up to 1000m |  20M measurements |  Up to 32Hz sampling |  USB-C download |  Cabled RBRcoda ³ variant available |
|--|---|---|--|---|--|

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

- ▶ RBRduet³ T.D temperature and depth, up to 2Hz continuous sampling
- ▶ RBRduet³ T.D|fast16 temperature and depth, up to 16Hz continuous sampling
- ▶ RBRduet³ T.D|fast32 temperature and depth, up to 32Hz continuous sampling

For information on RBR's tide and wave recorders, please refer to the RBRsolo³ / RBRduet³ datasheet.

The RBRduet³ T.D series has two channels: temperature and pressure. 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.

SMALL TWO CHANNEL RECORDER

TEMPERATURE, DEPTH, TIDES AND WAVES



Compact and lightweight



Depths up to 1000m



Over 20M measurements



Up to 32Hz sampling



USB-C download



Cabled RBRcoda³ variant available



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Specifications

Physical

| | |
|-----------------|------------------|
| Power: | Any AA cell |
| Communication: | USB-C |
| Clock drift: | ±60 seconds/year |
| Diameter: | 25.4mm |
| Length: | 265mm |
| Weight (air): | 136g (OSP) |
| Weight (water): | <10g (OSP) |

Temperature

| | |
|--------------------|----------------------------------|
| Range: | -5°C to 35°C |
| Accuracy: | ±0.002°C |
| Resolution: | <0.00005°C |
| Time Constant: | ~1s (standard) or ~0.1s (fast16) |
| Typical stability: | 0.002°C/year |

Depth

| | |
|--------------------|-----------------------------|
| Range (OSP): | 20 / 50 / 200 / 500 / 1000m |
| Accuracy: | ±0.05% full scale (FS) |
| Resolution: | <0.001% FS |
| Time constant: | <10ms |
| Typical stability: | 0.05% FS |

Sampling rates and Autonomy

RBRduet³ T.D

| | | | |
|----------------|---------------------|----------|-----------|
| Sampling rate: | 24hr to 1s, and 2Hz | | |
| Autonomy: | Rate | Duration | # samples |
| | 5s | 4 years | 25M |
| | 2Hz | 60 days | 10M |

RBRduet³ T.D | fast16

| | | | |
|----------------|-------------------------------------|----------|-----------|
| Sampling rate: | 24hr to 1s, and 2Hz, 4, 8, and 16Hz | | |
| Autonomy: | Rate | Duration | # samples |
| | 16Hz | 30 days | 45M |

RBRduet³ T.D | fast32

| | | | |
|----------------|---|----------|-----------|
| Sampling rate: | 24hr to 1s, and 2Hz, 4, 8, 16, and 32Hz | | |
| Autonomy: | Rate | Duration | # samples |
| | 32Hz | 16 days | 45M |

Realtime variant

Cabled realtime variant available as the RBRcoda³.

Deep variant

Explore up to 10km deep with the RBRduet³ T.D | deep.