RBR

MEASURE THE BLUE PLANET

rbr-global.com

RBR*fermata*

QUICK START GUIDE



The RBR*fermata* battery canister extends deployments of all instruments by providing up to 2.8kWh of energy to any underwater instrument, which is about forty times greater than our standard battery carriage capacity. Housing 48 individual D-cells and hosting three MCBH connectors. An innovative battery carrousel coupled with quick-release or low-profile handles facilitates simple, tool-free battery replacement.

Included with your RBR*fermata*

- O-rings, silicone compound, and O-ring removal tool
- Lithium battery retention bands

Deployment checklist

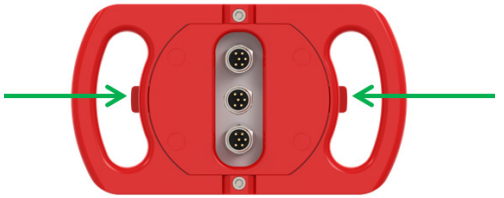
1. Install new batteries.
2. Inspect the O-rings and replace if necessary.

Deploy

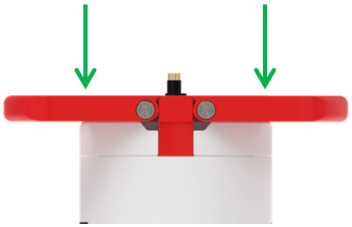
1. Open the RBR*fermata*

1.1. If you are using the model with **quick-release** handles,

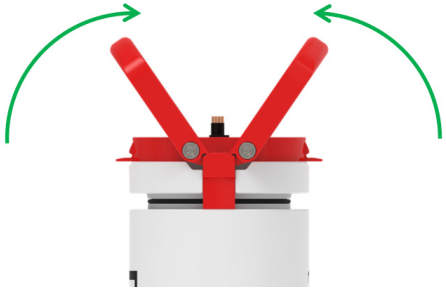
- Locate two release tabs on the opposite sides of the battery end-cap.



- Push at the tabs from the top to release the end-cap handles.



- Move the handles up from both sides.



- Firmly grip both battery end-cap handles and pull them up to remove the battery carrousel.

1.2. If you are using the model with **low-profile** handles,

- Loosen the two thumb screws in the battery end-cap until the carrousel can be separated from the housing.
- Firmly grip both battery end-cap handles and pull them up to remove the battery carrousel.



2. Install new batteries

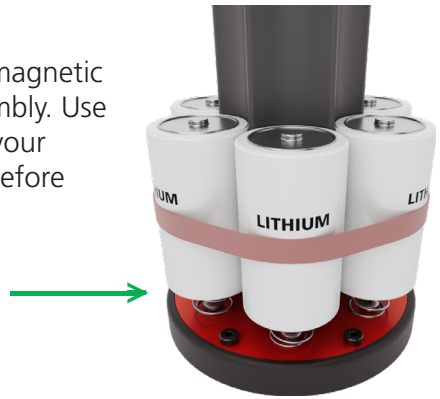
2.1. Alkaline or nickel metal hydride batteries

- Alkaline and nickel metal hydride are magnetic and hold in place with no additional steps required. Simply put the batteries in the carrousel, ensuring correct polarity.



2.2. Lithium batteries

- Lithium batteries do not have enough magnetic material to hold them together in assembly. Use the red retention bands provided with your RBR*fermata*, as shown. Verify polarity before installing the batteries.



2.3. Status LEDs

- Status LEDs indicate correct battery loading and volltage.
- All LEDs will illuminate when at least one column of batteries is installed.
- When a column (4 batteries stacked) is valid (column voltage is within required thresholds) the column LED will change from red to green. See image.



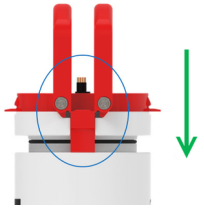
Note: Always remove the batteries from the canister during long-term storage! Doing so will prevent internal damage due to possible battery leakage and/or corrosion.

LED status	RBR*fermata* status	Channel Output
Solid green	Valid column	Disabled until all columns are valid
Solid red	Invalid column	Disabled
Flashing green (*x6*)	• All columns valid • Valid canister removed from housing	Enabled
Flashing red (*indicates a fault*)	• **Constant**: invalid canister in housing • **Slow**: low voltage shutoff • **Fast**: short circuit detected	Disabled

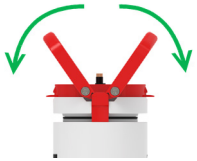
3. Close the RBR*fermata*

3.1. If you are using the model with **quick-release** handles,

- Align the battery end-cap with the slots on the housing and gently push down to ensure it fits in place.

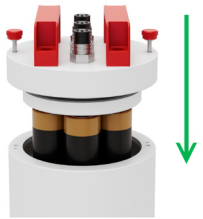


- Place both hands on the top of the end-cap handles and gently push them out, towards the opposite sides, until they click.



3.2. If you are using the model with **low-profile** handles,

- Insert the carrousel into the housing, gently push down to ensure the carrousel fits in place.
- Hand-tighten the two thumb screws until the battery end-cap is secured in the housing.



Support

To access support within the Ruskin app, navigate to **Help** > **Comment on Ruskin...**.
For technical support, please reach out to support@rbr-global.com, call +1 613 599 8900 (UTC-5), or visit rbr-global.com/support/service.