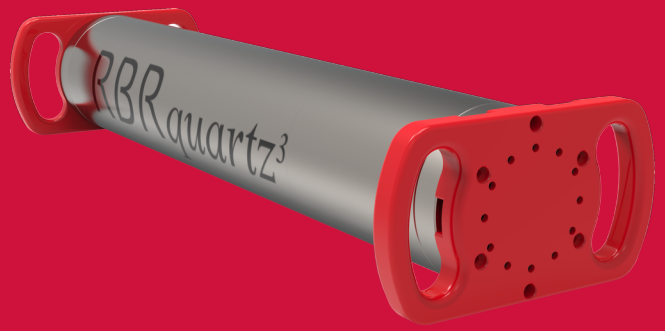
RBR

MEASURE THE BLUE PLANET

rbr-global.com

RBR*quartz*³ BPR | zero

QUICK START GUIDE



The RBR*quartz*³ BPR | zero is a special version of the robust RBR*quartz*³ BPR implementing the AzeroA technique to correct for the long-term drift in the pressure gauge. This instrument integrates one or two Paroscientific Digiquartz® pressure gauges, an internal quartz barometer, and a switching valve. The AzeroA drift correction technique periodically activates the switching valve to perform reference measurements of internal housing pressure. The RBR*quartz*³ BPR | zero requires external power to operate the valve.

Included with your instrument

- USB-C desktop cable with adaptor
- Reusable desiccant, O-rings, and oil absorbent pads
- Silicone compound
- O-ring removal tool
- 5mm hex key
- USB stick containing Ruskin software and documentation
- Calibration certificates*

* Calibration certificates are available in Ruskin. To download, connect your instrument, go to **Information**, and select the **Download** button.

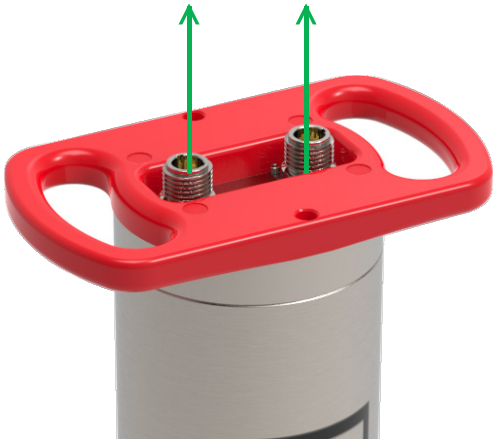
Ruskin software

Find Ruskin software for Mac and PC on the USB stick included with your instrument, or visit rbr-global.com/products/software.

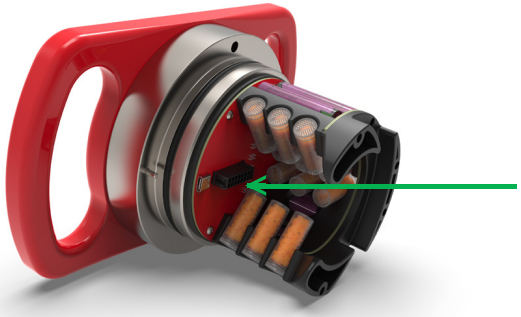
Deploy

1. Use the 5mm hex key (included) to remove the cap screws and open the instrument.

Remove the cap screws



2. Locate the USB-C port under the end-cap.



Locate the USB-C port under the end-cap

3. Connect the USB-C desktop cable to the USB-C port. The instrument will appear in Ruskin.

4. Select the required **Sampling** mode and speed.
5. Select **UTC** or **Local** to synchronise the instrument clock to the computer.
6. Choose whether to start **Now** or enter your desired **Start** date/time.
7. Review the estimated **End** date to ensure it fulfils the deployment requirements. Longer deployments can be achieved with better battery chemistry or lower sampling speeds.
8. Click **Enable** to start the deployment.
9. Align the battery end-cap with the slot on the instrument housing and gently push down to ensure it fits in place.
10. Reinstall the two cap screws and tighten to 1/4 turn past tight (10Nm max).
11. Connect the instrument to external power to enable the AzeroA drift correction technique.

Download

1. Open and remove the battery end-cap as shown.
2. Connect the USB-C desktop cable to the USB-C port. The instrument will appear on Ruskin.
3. Click **Download...** and select a location to store the dataset.

Deployment checklist

RBR ships new instruments with new lithium thionyl chloride batteries and fresh desiccant capsules included, and the O-rings installed, so that the instrument is ready for its first deployment.

For any subsequent deployment:

1. Install new batteries.
2. Install fresh desiccant (orange).
3. Inspect, clean, replace, and lubricate the two O-rings.
4. If using external power, inspect the RBR*fermata* underwater battery canister and ensure it is fit for deployment with your RBR*quartz³* BPR | zero.

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

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.

