



ARA DOCK4 Bump Test & Calibration Station

Quick start guide

Power

The ION ARA DOCK4 bump test and calibration station has two power sources. A 12V DC mains power supply and an internal rechargeable battery.

The internal rechargeable battery provides approximately 5 hours of continuous operation when fully charged (based on 4 x ARA's inserted).

The ION ARA DOCK4 will automatically switch itself off between tests if inactive for 2 minutes. This can be adjusted via ION ARA Dock4Manager software.

The power LED is green when it has sufficient charge or connected to mains power.

Power Button and Status Colours

Powers up the ION ARA DOCK4 bump test and calibration station.



Battery low



Normal operation



No USB

Setup and Installation

1. Loosen the lid cover bolts with a 3mm hexagonal wrench and open the lid to gain access to the calibration gas compartment.
2. Insert the calibration gas into the housing and screw clockwise until seated. Secure the cylinder with the bottle strap. Close the lid and fasten the cover bolts.
3. The calibration pressure gauge will indicate the amount of gas available.
4. Press the power button. The ION ARA DOCK4 bump test and calibration station is now ready to use.

Default Gas Concentrations

The recommended default calibration gas concentrations are below:

ION ARA Models:	Gas Type:	Gas Concentrations:
ARA100, ARA100H	Hydrogen Sulfide (H ₂ S)	25 ppm
ARA200, ARA200H	Carbon Monoxide (CO)	100 ppm
ARA300	Oxygen (O ₂)	18% Vol
ARA400	Sulfur Dioxide (SO ₂)	10 ppm

NOTE: These can be adjusted via ION ARA DOCK4 Manager and IR Link



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1. Firmly place between 1 and 4 ION ARA single gas detectors face-down into the bays.
2. To conduct a bump test, press the blue button labelled 'bump test'. The bay LED status will illuminate amber during the test. Upon completion, the bay LED will indicate green if passed and red if failed.
3. To conduct a calibration, press the green button labelled 'calibration'. The bay LED status will illuminate amber during the test. Upon completion, the bay LED will indicate green if passed and red if failed.

NOTE: The gas is only supplied to the bays where a detector is present.

- Briefly applies gas to test the sensor response, downloads logged events and tests the audible and visual alarms
- Adjusts the sensor settings to match the gas applied, downloads logged events and test the audible and visual alarms

ARA Status LEDs



- Test passed
- Test in progress
- Test failed

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Troubleshooting

- Check the built-in pressure gauge to ensure there is sufficient calibration gas (34L & 57L are full at 500psi). Inspect the ARA inlet port. Clear any obstructions and replace clogged or dirty filters.
- Clean ARA IR communication window with a non-alcohol-based cleaner.
- Bright sources of light may interfere with the ION ARA DOCK4 IR communication ports, try relocating.

If you are still experiencing problems after troubleshooting, please email technical.support@ionscience.com or call 01763 208 503.