



ARA-X4 Quick Start Guide

This is not a substitute for the user manual. Prior to operating, the user manual must be read and understood to prevent serious injury or death.



QUICK START GUIDE Multi-Gas Diffusion

QSG-ARA-X4-Diffusion Rev V1.0
EN
27.08.25

⚠ WARNING

Pre-Use and Inspection Warnings:

- Ensure that the monitor is powered on, and that both the sensor and buzzer are not blocked before use.
- If the device appears damaged, refrain from using it. Always check for potential blockages or any signs of physical damage before use.
- For safety, this equipment should only be operated and maintained by authorised personnel with proper training.

Battery Warnings:

- The lithium-ion battery in this device poses a risk of fire, explosion, and

chemical burns if mishandled.

Do not disassemble, incinerate, or expose it to temperatures exceeding 100°C (212°F).

- Exposure to temperatures above 130°C (266°F) for 10 minutes can cause the battery to catch fire or explode.
- Always charge the device in a safe environment, free from any hazardous gases. The device should only be charged in environments that are free from explosive gases to prevent the risk of ignition.
- Use only ION Science-approved chargers. The use of unauthorised chargers can result in fire or explosion.

Components and Service Warnings:

- Never attempt to open or modify internal components. Doing so will void the intrinsic safety certification and the product warranty unless repairs are carried out by an ION Science-authorised technician using original parts
- Removing the battery pack to deactivate the device could lead to improper operation and potential damage.

Environmental and Safety Warnings:

- The device is designed for use in air with normal oxygen levels, not exceeding 21% v/v. It is not suitable for environments with oxygen-deficient or dangerous atmospheres.

⚠ SAFETY – READ BEFORE USE.

Sensor Contamination Warnings:

- ION Science advises that the catalytic combustible sensor be checked with a known concentration of calibration gas after exposure to catalyst contaminants or poisons (such as sulfur compounds, silicon vapors, halogenated compounds, etc.).
- The catalytic combustible sensor comes factory-calibrated to 50% LEL methane. If monitoring a different combustible gas in the %LEL range, ensure the sensor is calibrated using the appropriate gas for accurate readings.
- Extended exposure to certain concentrations of combustible gases mixed with air can cause stress on the device element, which may severely degrade its performance. If an alarm is triggered due to high concentrations of combustible gases, recalibrate the device. If necessary, replace the sensor.

WARNING: Overrange readings could indicate that the gas concentration is dangerously high and possibly explosive.

⚠ CAUTIONS / SPECIAL CONDITIONS

Inspection and cleaning Warnings:

- This product is a gas device, not a precise measuring instrument
- All inspections should be conducted in a clean environment free of hazardous substances.
- The external moulding of the device can

be cleaned using a soft, damp cloth and a neutral cleaner.

(e.g., ACL Staticide).

Note: Avoid using solvents, soaps, or polishes as they may damage the device.

⚠ WARNING

Charge only in a safe area that is free of hazardous gas and within temperature of 0°C to 45°C (32°F to 113°F).

Charging time

ARA-X4 diffusion: Up to 6 hours from a fully discharged battery.



ARA-X4 diffusion

Performance and Calibration Warnings:

- To maintain accuracy, calibrate the device at least once a month using certified calibration gas.
- Over time, sensor readings may drift. Perform a bump test before each use to verify proper operation.



ARA-X4 Quick Start Guide

This is not a substitute for the user manual. Prior to operating, the user manual must be read and understood to prevent serious injury or death.

PREPARE FOR USE

The list below provides the standard items included with the device. If the device is damaged or parts are missing, contact the place of purchase immediately.

- ARA-X4 multigas detector configured with up to four sensors. Sensor options: CO, H₂S, O₂, SO₂, HCN, and combustible (LEL) (CAT or IR) as ordered.
- Calibration cap, tubing, and spare filter-assembly.
- Printed Quick Start Guide
- Calibration Card

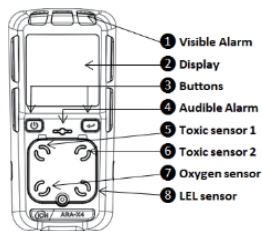
Configuration options: The device can be configured using the ION Science ARA-X Manager.

GETTING STARTED

To activate the device, press and hold the left button for 3 seconds.

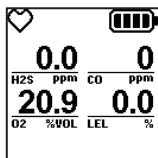
To deactivate the device, press and hold the left button for 5 seconds.

To activate the backlight in normal operation, Press the right button.



DISPLAY

When the Device is powered on or off the full display will light up as below showing all segments allowing the user to fully verify the correct function.



Name	Icon	Description
Device health		Compliance indication
Warning		Error or reminder
Stealth		Stealth mode on
Logging		Logging indication
Battery		80~100% = full icon.
		10~20% = empty icon.
		Charging = lighting
Bump		Bump due
CAL		Calibration due
Peak		Peak indication

CALIBRATION

ARA-X4 can be calibrated with an ARA-X Docking Station or directly with a gas cylinder using the ARA-X4 calibration cap.



ALARM SET POINTS

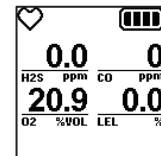
Default factory alarm set points

GAS	Low	High	TWA	STEL
CO	35ppm	200ppm	35ppm	50ppm
H ₂ S	10ppm	15ppm	10ppm	15ppm
O ₂	19.5%	23.5%	-	-
SO ₂	5ppm	10ppm	2ppm	5ppm
HCN	4.7ppm	10ppm	4.7ppm	10ppm
LEL	10%LEL	20%LEL	-	-

These set points can be changed using ARA-X Manager. To display the device alarm set points, refer to the ARA-X4 manual

NORMAL OPERATION

In normal operation the installed sensors are displayed and a flashing heart indicates the device is in good working condition and no action is required. Press left button once to activate logging. This is the default setting and can be configured by using ARA-X Manager. Use the ION Science ARA-X Manager to configure the unit. Details are in the manual.



Press and hold the left and right buttons for 3 seconds to access the menu. The standard menu presents the following functions:

1. Bump
2. Device info
3. Admin

To access additional menu functionality, enter password at Admin. Password is 0000 by default, or the value configured by your admin user via the ARA-X Manager software.

FOR MORE INFORMATION.

For more information visit ionscience.com. Please contact your local ION Science distributor or authorised service centre for further support.