

# ARA

## SINGLE GAS DETECTOR



LOW MAINTENANCE, DISPOSABLE SINGLE  
GAS DETECTOR

[ionscience.com](http://ionscience.com)

Pioneering Gas Sensing Technology.





# ARA IS A PERSONAL, DISPOSABLE SINGLE GAS DETECTOR FOR $H_2S$ , $CO$ , $SO_2$ , $O_2$ THAT PROVIDES INSTANTANEOUS ALARMS FOR LIFE-CRITICAL SAFETY SCENARIOS

## Features

- 24 month or 36 month battery life options
- Easy to use with single button operation
- Live readings & instantaneous alarms to protect a users workforce in hazardous environments
- Event logging download
- Adjustable low & high alarms
- User-configurable calibration and bump test reminders
- Lifetime remaining countdown helps users to plan for future projects and site shutdowns

## Ara IR Link\*

The IR Link enables ARA to communicate with a PC using infrared. The ARA PC allows users to download 30 recent event logs and configure user settings including:

- User ID
- Low alarm
- High alarm
- Displayed data (live reading or lifetime remaining)
- Calibration interval
- Bump Test interval
- Self Test interval

## Self Test

ARA's self-test feature tests the audio, visual & vibrating alarms, giving users confidence that they are in safe hands. Easy to perform in a single button press and with user-configurable reminders, the self-test reassures users that their device is in safe working condition.

## Industries

- Oil & gas
- Manufacturing
- Government & defence
- Water
- Aerospace
- Power generation

## Applications

- Site wide safety
- Confined space entry
- Plant shutdown processes
- First response safety



\*ARA IR link sold separately



## ARA models available

The ARA has 6 different models

ARA Models	Model Number
Hydrogen Sulphide (H <sub>2</sub> S)	ARA100
Carbon Monoxide (CO)	ARA200
Oxygen (O <sub>2</sub> )	ARA300
Sulphur Dioxide (SO <sub>2</sub> )	ARA400
Hydrogen Sulphide (H <sub>2</sub> S) Hibernation Option	ARA100H
Carbon Monoxide (CO) Hibernation Option	ARA200H



## ION ARA DOCK4\*

The ARA DOCK4 is a bump test and calibration station that can test up to 4 ARA Single Gas Detectors simultaneously reducing gas usage and testing time. The ARA DOCK4 is simple to operate and records calibration and bump test readings along with the serial number, date and time.

\*ARA DOCK4 sold separately



## Technical specifications

### Sensor Type

- Single plug-in electrochemical cell

### Detection Range

- H<sub>2</sub>S: 0 to 100 ppm
- CO: 0 to 300 ppm
- SO<sub>2</sub>: 0 to 50 ppm
- O<sub>2</sub>: 0 to 25 %

### Event Log Storage

- Last 30 events

### Battery

- 3.6 Vdc, 1.65 Ah, lithium battery

### Battery Life

- Standard models: 24 months of operation (2 mins alarm per day)
- Hibernation models: 36 months of operation (2 mins alarm per day and using sleep function)

### Approvals

- Ratings: Class I, Division 1, Groups A, B, C and D, T4; Class I, Zone 0, AEx ia IIC T4 Ga; Ex ia IIC T4 Ga; -40 °C ≤ Ta ≤ +60 °C: ARA100, ARA200, ARA400, ARA100H, ARA200H -30 °C ≤ Ta ≤ +60 °C: ARA300
- Applicable Standards: CAN/CSA C22.2 No. 60079-0:19  
CAN/CSA C22.2 No. 60079-11:14 ANSI/UL 60079-0 7th ed.  
ANSI/UL 60079-11 6th ed

### User Options

- User ID
- Low alarm
- High alarm
- Displayed data (live reading or lifetime remaining)
- Bump-Test interval
- Calibration interval
- Self-Test interval

### Alarms

- Audio Alarm: (95 dB @ 10 cm)
- Visual Alarm: LED
- Vibrating Alarm: Vibrator (Operates at ±10 °C)

### Temperature

- H<sub>2</sub>S, CO, SO<sub>2</sub>: - 40 °C to + 60 °C
- O<sub>2</sub>: - 30 °C to + 60 °C
- Humidity: 5 - 95 % RH

### Ingress Protection

- IP67

### Display

- Liquid Crystal Display (LCD)

### Weight & dimensions

- 92 g (3.2 oz)
- 87 x 50 x 29 mm (3.4 x 2.0 x 1.1 inch)

### Shelf Life

- H<sub>2</sub>S, CO & SO<sub>2</sub>: 12 Months
- O<sub>2</sub>: 6 months

ARA V1.1. This publication is not intended to form the basis of a contract and specifications can change without notice.

### Distributed by:

#### ION Science Ltd

The Hive, Butts Lane,  
Fowlmere,  
Cambridgeshire,  
SG8 7SL, UK

T +44 (0)1763 208503

E [info@ionscience.com](mailto:info@ionscience.com)