

ARA

SINGLE GAS DETECTION



LOW MAINTENANCE, DISPOSABLE SINGLE
GAS DETECTOR

ionscience.com

Unrivalled Gas Detection.





ARA IS A PERSONAL, DISPOSABLE SINGLE GAS DETECTOR FOR H₂S, CO, SO₂, O₂ 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

*ARA IR link sold separately

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 models available

The ARA has 6 different models

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



Hibernation Mode

Hydrogen Sulphide and Carbon Monoxide models have a hibernation option available which extends the run time from 24 to 36 months.

The hibernation models also come with an extended warranty period.





Technical specifications

Sensor Type

- Single plug-in electrochemical cell

Detection Range

- H₂S: 0 to 100 ppm
- CO: 0 to 300 ppm
- SO₂: 0 to 50 ppm
- O₂: 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

- H₂S, CO, SO₂: - 40 °C to + 60 °C
- O₂: - 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)

ARA V1.0. This publication is not intended to form the basis of a contract and specifications can change without notice.

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