ARA-X4
MULTI GAS

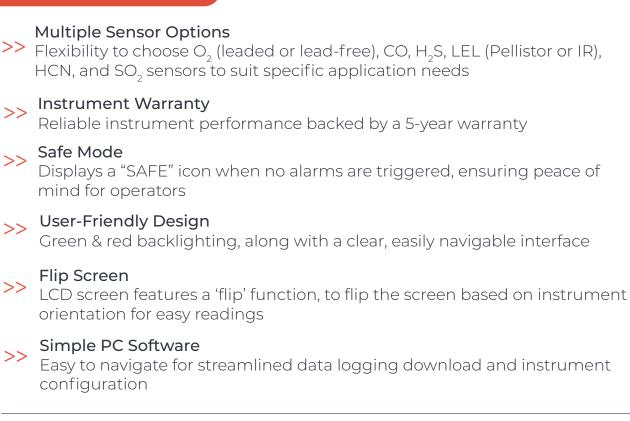Pioneering Gas Sensing Technology.
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ARA-X4

ARA-X4 is a robust multi gas monitor, providing unrivalled protection and elevated worker safety, with effortless efficiency across a diverse range of environments.

Overview

The ARA-X4 multigas monitor from ION Science is a rugged, 4-gas compliance instrument designed for hazardous environments. Certified by ATEX, IECEx, and UL (PENDING), and featuring an IP67 ingress protection rating, ARA-X4 offers a reliable, cost-effective, and user-friendly solution for worker safety. Ideal for confined space entry and personal health protection, it provides real-time monitoring of O_2, CO, H_2S, HCN, SO_2, and LEL levels, ensuring compliance with safety regulations.

ARA-X4's low-maintenance design ensures ease of servicing, reducing long-term ownership costs and is an essential tool for safety managers, industrial hygienists, and process operators who need a trusted, effective, and compliant gas detection solution.

Key Features

>> **Multiple Sensor Options**
Flexibility to choose O_2 (leaded or lead-free), CO, H_2S, LEL (Pellistor or IR), HCN, and SO_2 sensors to suit specific application needs

>> **Instrument Warranty**
Reliable instrument performance backed by a 5-year warranty

>> **Safe Mode**
Displays a "SAFE" icon when no alarms are triggered, ensuring peace of mind for operators

>> **User-Friendly Design**
Green & red backlighting, along with a clear, easily navigable interface

>> **Flip Screen**
LCD screen features a 'flip' function, to flip the screen based on instrument orientation for easy readings

>> **Simple PC Software**
Easy to navigate for streamlined data logging download and instrument configuration

Green LED confidence flash every 60 seconds to confirm instrument status

Optional 'SAFE' mode offers limited, but critical information to the operator

The screen displays a highly visible red backlight, making it unmistakably clear when an alarm is triggered, ensuring easy recognition even in high gas concentrations.

Configurable sensor options providing flexibility in different industrial applications for trained personnel

Offers 60,000 data logs and 50 event logs

LCD screen display "flips" based on instrument orientation for easy readability

Multiple display language options: English, French, German, Spanish, Italian, Portuguese, Dutch and Chinese

Diagnostic feature allows for self testing and fast identification of faults, reducing instrument downtime

Replaceable PTFE filter ensuring easy maintenance and service

Additional Features

ARA-X4 is designed with user convenience and efficiency in mind. Its easily accessible filter simplifies maintenance, allowing workers to quickly replace it without the need for complex disassembly. Unlike other models on the market that require full unit disassembly, ARA-X4 ensures minimal downtime and reduced risk of water or dirt ingress to the sensors.

To accommodate different user needs, ARA-X4 offer both leaded and lead-free oxygen sensor options. The lead-free sensor provides a longer lifespan and a more environmentally friendly choice, while the leaded sensor offers a cost-effective alternative.

For added flexibility, the configurable user setup allows trained personnel to modify the device's sensor configuration based on specific workplace hazards. This adaptability ensures that the monitor remains suitable for different work environments, and one solution suits all.

Maintaining accurate calibration is critical for safety

compliance. ARA-X4 is available to purchase with a calibration and bump test docking station, making it easy for workers to carry out quick and reliable performance verification. This reduces the risk of user error, and ensures the device is always operating at peak accuracy.

Additionally, ARA-X4 captures and stores event logs whenever an alarm is triggered. These logs can be easily downloaded and reviewed, providing a detailed record for compliance reporting, incident investigations, and safety audits.

Common Markets

- Oil & Gas
- Petrochemical
- Pharmaceutical
- Maritime
- Utilities
- Wastewater
- Hazmat/First Response
- Manufacturing

Technical Specifications

Gas Sensor Options
- **Electrochemical:**
  - CO
  - H_2S
  - Dual Tox (CO/H_2S)
  - O_2 (lead or lead-free options)
  - SO_2
  - HCN
- **Flammable Sensors**
  - LEL Pellistor (CH_4)
  - LEL NDIR (CH_4)

Event Log Storage
- 50 bump logs
- 50 calibration logs
- 50 event logs
- 60,000 data logs

Battery
- Li-ion battery, DC 3.7V, 2000mAh

Battery Life
- LEL Pellistor Model: 18 hours
- LEL IR model: 60 days*

Status indicator
Visual
- 6 red/green LED, plus 1 green LED (confidence)
Audible
- 95 dB @ 30cm
Vibrating Alarm
- Vibrator (temperatures greater than -10°C)

Display
- LCD: 45 x 45 mm, internal backlight (red and green), FTSN, COG 128 x 128 graphic LCD, FPC

Environmental specification
- Operational temperature: -20 °C to +55 °C, 5 ~ 95% RH

Ingress Protection
- IP67

Communication
- IR Communication to ARA-X4 PC software via IR link

Weight & Dimensions
- < 300g
- 67 x 140 x 34 mm

Certification
- ⟨Ex⟩ **ATEX:** II 2G Ex db ib IIC T4 Gb
- ⟨Ex⟩ **IECEx:** Ex db ib IIC T4 Gb
- UL - PENDING

Warranty
5 years**

Sensor Specifications

Sensor	Range	Resolution	Low Alarm	High Alarm	Warranty	Expected Lifetime
O2 (leaded)	O2: 0 to 25%	0.1%	19.5%	23.5%	2 years	> 24 months in air
O2 (lead-free)	O2: 0 to 25%	0.1%	19.5%	23.5%	3 years	> 60 months in air
CO**	CO: 0 to 500 ppm	1 ppm	35 ppm	200 ppm	2 years	> 24 months in air
H2S**	H2S: 0 to 100 ppm	0.1 ppm	10 ppm	15 ppm	2 years	> 24 months in air
CO/H2S Dual	CO: 0 to 500 ppm H2S: 0 to 100 ppm	CO: 1 ppm H2S: 0.1 ppm	CO: 35 ppm H2S: 10 ppm	CO: 200 ppm H2S: 15 ppm	2 years	> 24 months in air
LEL (Pellistor)	LEL: 0 to 100% LEL	0.1%	10%	20%	1 year	> 24 months in air
LEL (IR)	LEL: 0 to 100% LEL	0.1%	10%	20%	3 years	> 60 months in air
HCN	HCN: 0 to 30 ppm	0.1 ppm	4.5 ppm	10 ppm	1 year	> 24 months in air
SO2	SO2: 0 to 20 ppm	0.1 ppm	5 ppm	10 ppm	1 year	> 24 months in air

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