

AreaRAE Inert

Multi-Sensor Gas Detector with Wireless Modem



AreaRAE Inert is a one- to five-sensor gas detector equipped with a wireless RF (radio frequency) modem which allows the unit to communicate real-time sensor readings with a remotely located host controller PC. Wireless remote monitoring ensures worker safety, while sensitive sensing technology measures toxic and flammable gases in inert atmosphere without the need for dilution fitting.

Increase safety with remote monitoring

Easy to use sensing technology

Rapidly deployable system up in minutes

Designed for use in harsh & hazardous environments

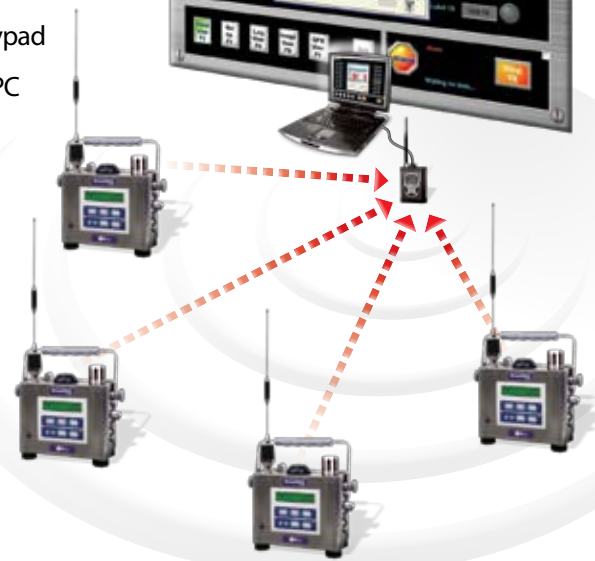


Key Features

- Up to five sensors (PID, LEL, O2, and two toxic)
- Rugged, weather-resistant stainless-steel housing
- Built-in modem for data transmission up to 2 miles
- Over 18 hours of run time on interchangeable Lithium-ion battery
- Built-in pump with ability to draw up to 100 feet
- Loud buzzer and large, extra-bright warning light
- Large LCD display and keypad
- Datalogging on the host PC and on the AreaRAE
- Optional GPS provides ability to track units
- Easily switch between INERT and NORMAL operation modes

Applications

- Catalysts replacement
- Confined space entry
- Fence-line monitoring
- Hazardous material response
- Environmental cleanup



AreaRAE Inert

Specifications

Detector Specifications*

Size	9.25" L x 5.0" W x 9.25" D (23.5cm L x 12.7cm W x 23.5cm D) without handle
Weight	8.5 lbs. (3.9 kg) with battery pack
Sensors	Up to five sensors (O ₂ , combustible, two toxic and VOC)
Battery	Rechargeable, 7.4V/4.5Ah, Lithium-ion battery pack with built-in charger (less than 10 hours charge time) or a 6 C-size alkaline battery pack
Operating Hours	Up to 18 hours continuous operation
Display	2-line, 16-digit LCD with manually activated LED back light
Audible Alarm	110dB buzzer at 10cm (typical)
Visual Alarm	Flashing red LED cluster
Data Storage	20,000 readings (64 hours, 5 channels at 1-minute intervals) in non-volatile memory
EM Immunity	No effect when exposed to 0.43 mW/cm ² RF interference (5-watt transmitter at 12 inches)
Safety Certification	CSA Classified for use in Class I, Division 2, Groups A, B, C, and D (w/ 900 MHz modem)
Frequency	902 to 928 MHz (License-free)
RF Range	Up to 2 miles
Calibration	Two-point field calibration for fresh air and standard reference gas
Sampling Pump	Internal integrated diaphragm pump with programmable High (400cc/min) and Low (300cc/min) flow rate settings
Temperature	-4° to 113°F (-20° to 45°C)
Optional	Integrated GPS receiver

*Specifications are subject to change

Monitor Only Includes:

- Monitor as specified
- Sensors as specified
- Carbon filters (for CO sensor)
- Calibration adapter
- Quick reference guide
- Operation and maintenance manual
- Shoulder strap
- Rechargeable Lithium-ion battery pack
- 120/240 VAC AC/DC Adapter
- Spare alkaline battery pack
- 3 spare external filters
- Hard transport case with pre-cut foam
- 15' (5m) Teflon® tubing
- Tool kit

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DS-1052-01

Sensor Specifications

Gas	Range	Resolution
Oxygen	0 to 30.0%	0.1%
Combustible	1 to 100% LEL	1% LEL
VOCs	0 to 199 ppm, 200 to 2,000 ppm	0.1 ppm, 1 ppm
Carbon Monoxide/ Hydrogen	10 to 2000 ppm	10 ppm
Hydrogen Sulfide	0 to 100 ppm	1 ppm
Sulfur Dioxide	0 to 20.0 ppm	0.1 ppm
Nitric Oxide	0 to 250 ppm	1 ppm
Nitrogen Dioxide	0 to 20.0 ppm	0.1 ppm
Chlorine	0 to 10.0 ppm	0.1 ppm
Hydrogen Cyanide	0 to 100 ppm	1 ppm
Ammonia	0 to 50 ppm	1 ppm
Phosphine	0 to 5.0 ppm	0.1 ppm
Hydrogen Chloride	2 to 15 ppm	1 ppm
Hydrogen Fluoride	2 to 10 ppm	1 ppm

Ordering Information

Part Numbers

AreaRAE Inert with CO/H₂S/LEL/ PID/O₂ and Calibration Gas	038-N11D-112
AreaRAE Inert with CO/H₂S/LEL/ PID/O₂, GPS and Calibration Gas	038-N11D-122

Contact RAE Systems for other sensor configuration options

Toll-Free: 877-723-2878

