



# IVA-SQN-8

## Multi-point Sample Draw Gas Monitor



The new generation of IVA-SQN Series combines long proven sensing capability along with state-of-the-art pumping technology and constant, high accuracy to yield a highly reliable sample draw gas detection system. The IVA-SQN-8 offers accurate monitoring of the presence of a wide variety of refrigerants, or other toxic and explosive gases in a surveillance area of up to 8 different zones. A low maintenance diaphragm pump draws ambient air to the sensor from a maximum distance of 1000 feet. A high performance sequencer synchronizes the mechanics and the electronics so that the levels of detectable gases are properly registered for each of the 8 zones. The unit is fully operational from the box, making for simple, hassle-free installation. The new generation of IVA-SQN-8 provides an excellent, cost-effective, centralized gas detection solution.

### Key Features and Benefits

- Wide area of coverage
- 3 alarm relays
- Audible alarm
- LCD display
- LED status indicators
- Integrated flow loss surveillance
- 2, 4 or 8 sample points
- Early low level warning alarm
- Proven sensing technology
- Up to 2 gases

### Ordering Information

IVA-SQN-82-R*(R**)	2 Sampling Points
IVA-SQN-84-R*(R**)	4 Sampling Points
IVA-SQN-88-R*(R**)	8 Sampling Points

\* First Target Gas  
 \*\* Second Target Gas



**IVA-SQN-8**

**Toxics**

- CO
- NO<sub>2</sub>
- CO<sub>2</sub>
- O<sub>2</sub>

**Refrigerants**

- R11
- R12
- R22
- R123
- R125
- R134A
- R407C
- R410

**Combustibles**

Catalytic

ISO 9001:2000



Intertek

# VA-SQN-8

## Multi-point sample draw gas monitor

### Sensing Technology:

Refrigerants: Infrared  
Toxic: Electrochemical  
Combustibles: Catalytic combustion  
Oxygen: Diffusion fuel cell

### Visual Indicators:

Normal Operation: Green LED  
Alarm Level 1: Red LED  
Alarm Level 2: Red LED  
Failure Indication: Yellow LED  
Aspirated Zone: Green LED

### Relay Output Rating:

5A, 30 Vdc or 250 Vac (resistive load)

### Audible Alarm:

110 dBA at 3 ft. / 1 m

### Alarm Levels:

3 alarm levels

### Number of Sample Points:

Up to 8, including 1/8" polymer tubing

### Outputs:

3 DPDT relays  
(3 alarms level or 2 alarm levels and Fault)  
RS-485

### Operating Humidity Range:

0-95% RH (non-condensing)

### Operating Temperature Range:

32 °F to 100 °F / 0 °C to 40 °C

### Maximum Sampling Distance:

1000 ft. / 305 m

### Ratings and Certifications:

Certified to:  C22.2 No 205  
Conforms to:  Standard 1244

### General Specifications

Size: 19 x 11.75 x 4.5 in. (48.3 x 30 x 11.4 cm)  
Weight: 22.4 lbs. (10.17 kg)  
Power Requirement: 24Vac, 1A

Gas Detected	Detection Range	Sensitivity	Accuracy
Refrigerants: R11, R12, R22, R123, R125, R134A, R407C, R410	0-1000 ppm	4 ppm	3%
Carbon Monoxide (CO)	0-250 ppm	1 ppm	
Nitrogen Dioxide (NO <sub>2</sub> )	0-10 ppm	0.05 ppm	
Combustibles	0-100% LEL	0.5%	
Oxygen (O <sub>2</sub> )	0-25%	0.1%	
Carbon Dioxide (CO <sub>2</sub> )	0-2000 ppm, 0-5%	0.1%	



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