



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

NO₂

O₂

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 ₂)	0-10 ppm	0.05 ppm	
Combustibles	0-100% LEL	0.5%	
Oxygen (O ₂)	0-25%	0.1%	



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