

PRODUCT SUBMITTAL

SQN8x MONITOR

WITH SENSOR POINTS/TUBING

Honeywell

ORDERING INFORMATION

SQN8x Monitor

- | | |
|-----------------------------------|-----------------------------|
| <input type="checkbox"/> VASQN8-2 | System with 2 sensor points |
| <input type="checkbox"/> VASQN8-4 | System with 4 sensor points |
| <input type="checkbox"/> VASQN8-8 | System with 8 sensor points |

Gas - Maximum of two sensor points per VASQN8x unit

- | | |
|---------------------------------------|----------------------------|
| <input type="checkbox"/> NO2 | Electrochemical |
| <input type="checkbox"/> O2 | Metal-air battery (oxygen) |
| <input type="checkbox"/> Combustibles | Catalytic Combustion |
| <input type="checkbox"/> R11 | Infrared |
| <input type="checkbox"/> R12 | Infrared |
| <input type="checkbox"/> R22 | Infrared |
| <input type="checkbox"/> R123 | Infrared |
| <input type="checkbox"/> R125 | Infrared |
| <input type="checkbox"/> R134A | Infrared |

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SQN8X - TECHNICAL SPECIFICATIONS

Sensor Technology:	Refrigerant (infrared) Electrochemical (toxic) Catalytic Combustion (combustibles) Diffusion Fuel Cell (oxygen)
Visual Indicators:	Normal : Green LED Alarm A : Red LED Alarm B : Red LED Failure: Amber LED Active sample points : Green LED
Required Power :	24 Vca, 0.74 A
Audible Alarm:	110 dBA at 1m (3 pi.)
Number of sensor points:	Up to 8 (2, 4, ou 8)
Number of Outputs:	3 DPDT relays (3 alarm level or 2 alarm level and failure) RS-485
Relay Specifications:	5A, 30 Vcc or 250 Vca (resistive load)
Alarm Level:	3
Maximum Sampling Distance:	305 m (1000 ft.)
Operating Humidity Range:	15% - 90% HR, non-condensing 0% - 99% RH, non-condensing(infrared)
Temperature Range:	0°C to 40°C (32°F to 100°F)
Dimensions:	48 cm 33 cm 10 cm (19 in x 13 in x 3.75 in)
Weight :	12.02 kg (26.5 lbs)

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TABLES

Detection Range And Alarm Level

Gas Detected		Range	Alarm A	Alarm B	Alarm C
CO	Carbon Monoxide	0 - 255 PPM	25 PPM	200 PPM	225 PPM
NO ₂	Nitrogen Dioxide	0 - 10.2 PPM	0.72 PPM	2 PPM	9 PPM
O ₂	Oxygen	0 - 25.5% Vol.	19.5% Vol.	22% Vol.	22.5% Vol.
R-123	Refrigerant	0 - 1,020 PPM	50 PPM	500 PPM	900 PPM
R-11	Refrigerant Q1	0 - 1,020 PPM	250 PPM	500 PPM	900 PPM
R-12					
R-22					
R-125					
R134A					
COMB	Combustibles	0 - 102% LEL	25% LEL	50% LEL	90% LEL

Recommended Wall Mount Installation Height

Detected Gas		Relative Density (air = 1)	Installation Height
CO	Carbon Monoxide	0.968	3 - 5 ft. (1 - 1.5 m) from floor
NO ₂	Nitrogen Dioxide	1.58 (cold)	*1 - 3 ft. (30 cm to 1 m) from ceiling
O ₂	Oxygen	1.43	3 - 5 ft. (1 - 1.5 m) from floor
R11	Refrigerants	5.04	1 ft. (30 cm) from floor
R12		4.20	
R22		3.11	
R123		5.27	
R125		4.14	
R134A		3.52	
COMB	Most combustibles are heavier than air, with the exception of methane, hydro gen,ethylene and acetylene. For gases that are heavier than air, sensors should be installed approximately 30 cm (1 ft.) from the floor. For combustibles that are lighter than air, sensors should be installed 30 cm (1 ft.) from the ceiling, close to the potential leak source.		

*May differ for certain uses. For example, heated NO₂ gas coming from an exhaust system is lighter than 1.58.

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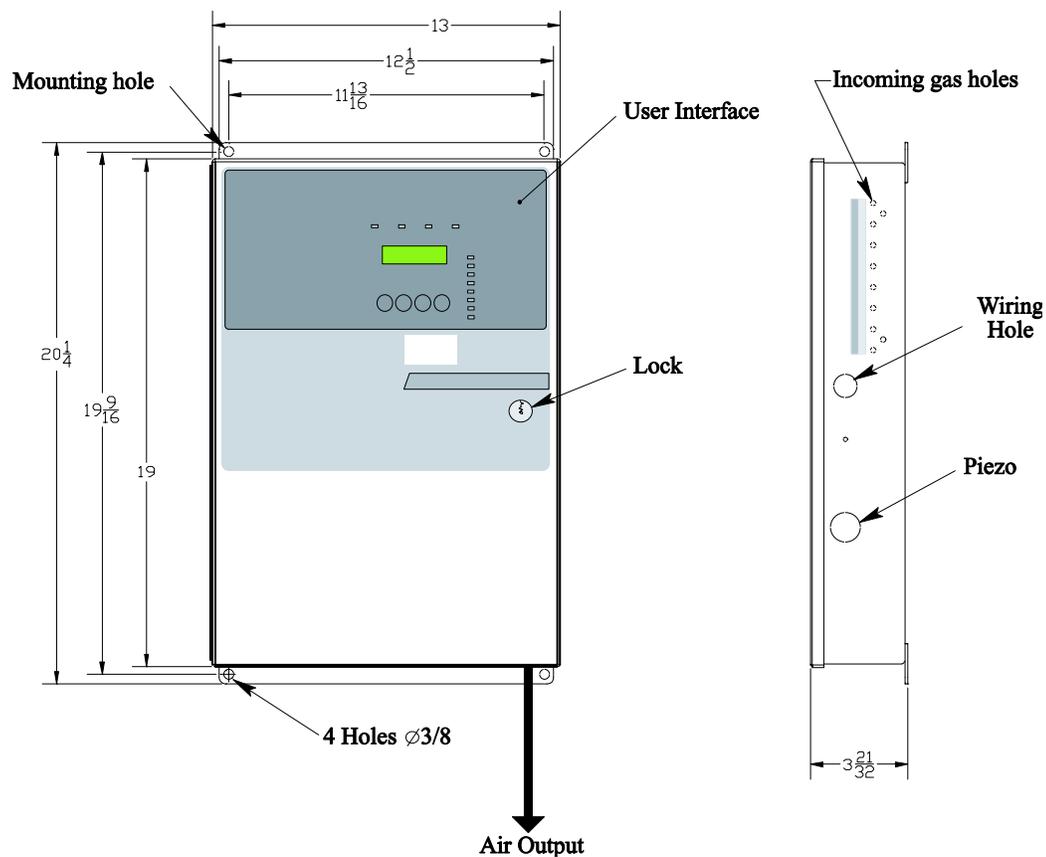
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INSTALLATION INSTRUCTIONS

Installation instructions must be strictly followed to ensure the proper functioning of the equipment. Honeywell will not be liable or responsible for any malfunctions or incidents that may occur from improper installation:

- Place each unit in a location that is easily accessible for service.
- Avoid placing units near sources of vibrations.
- Avoid placing units near equipment that emits electromagnetic interference.
- Avoid any location where there are large temperature swings.
- Before installing, verify all local codes, standards or legislation that could impact choice of installation location.

WALL MOUNT INSTALLATION INSTRUCTIONS



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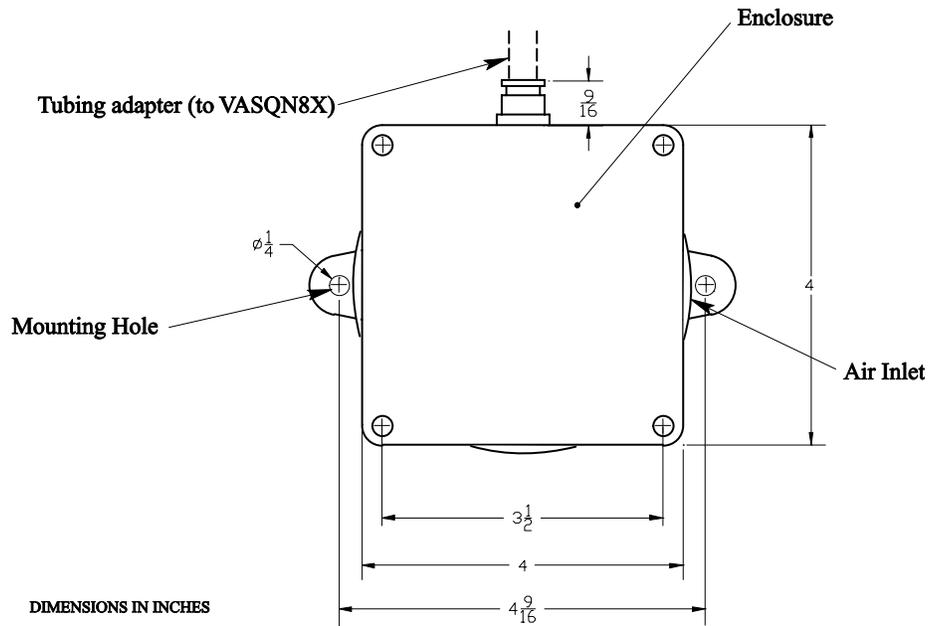
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DETAILS FOR WALL MOUNTING SENSOR POINTS

Install the tubing between the monitor and the sensors. Connect the tubing to each of the push-in connectors of both the transmitter intake (suction) and sensors. Also connect one length of tubing to the air exhaust, up to a secure area.



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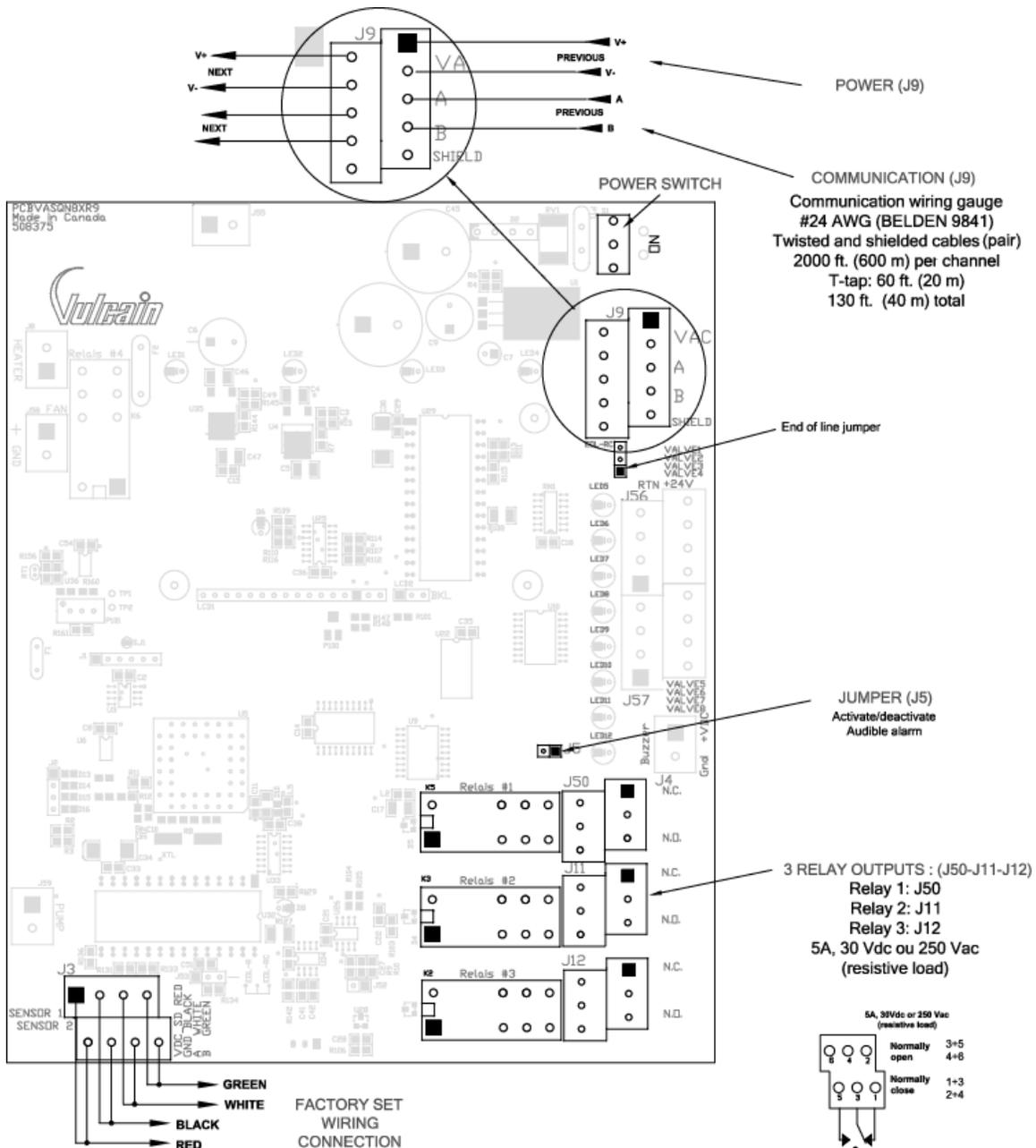
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SON8X WIRING DETAILS

Opening the SQN8X monitor provides access to the terminal boards. Connect the 24 Vac power supply to the power supply terminal. The power supply should come directly from the electrical panel on a dedicated circuit. Connect the auxiliary device to the relay outputs. Relay 1 is activated, by default, when gas concentrations reach alarm level A. Relay 2 is activated when gas concentrations reach alarm level B and relay 3 signals a failure (breakdown). The functioning sequence is completely programmable, thus programming can be modified if it was requested at the time of order.



A dedicated circuit must be used for power supply.

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WARRANTY AND LIMITS OF LIABILITY

Honeywell warrants to the original purchaser that its product, and the component parts thereof, will be free from defects in workmanship and materials for a period of one year from the date of purchase. Honeywell will, without any charge and at its option, repair or replace defective products or components upon their delivery to its Repair and Service Department. This warranty does not apply in the event of misuse or abuse of the product, or as a result of unauthorized alterations or repairs. Honeywell shall not be liable for any consequential damages, including, without limitation, damages resulting from loss of use. Every precaution for accuracy has been taken in the preparation of this manual. However, Honeywell neither assumes responsibility for any omissions or errors that may appear, nor liability for any damages that may result from the use of the products in accordance with the information contained in this manual.

To obtain warranty service, return the product, along with a complete description of the defect, transportation prepaid. Honeywell assumes no risk for damage in transit. Following warranty repair, the product will be returned to the buyer, transportation prepaid.