

## Manning Airscan™ IRF9 SPECIFICATIONS

### Refrigerant, Ammonia and Carbon Dioxide Detector



General Specification	
<b>Use</b>	Infrared (diffusion) type sensor that works in conjunction with any Honeywell Analytics Manning readout or alarm unit. This detection platform can monitor for ammonia, carbon dioxide, and a number of refrigerant gases. The IRF9 satisfies AB32 California code and is CARB compliant.
Common Operation	
<b>Gases Monitored</b>	R-404a, R-22, R-507a, R-513a, R-514a, R-134a, R-407a, R-410a, R-422d, R-448a, R-449a, HFO-1234yf, HFO-1234ze, HFO-1233zd, NH <sub>3</sub> , CO <sub>2</sub>
<b>Gas Sampling</b>	Diffusion method with no moving parts, real time continuous monitoring of all points
<b>Output</b>	Linear 4/20 mA output into a load resistor of 500 ohm maximum
<b>Accuracy</b>	+/- 3% full scale
<b>Repeatability</b>	+/- 1% full scale
Operational	
<b>Humidity</b>	0-100% RH (condensing)
<b>Operating Temperature</b>	Standard: -30°C to +60°C / -20°F to +140°F ATMOS: -40°C to +60°C / -40°F to +140°F Superheat: -50°C to +60°C / -60F to +140°F
<b>Storage Temperature</b>	-28°C to +60°C / -20°F to +140°F
Common Module	
<b>Cable Recommendation</b>	Three conductor, stranded shielded cable with drain wire, all enclosed in a vinyl jacket. For cable runs up to 200 feet, use 18# AWG (Belden #8770 or equivalent).
<b>Power Source</b>	24 Volts DC regulated, 1.2 amp max.
<b>Repeatability</b>	+/- 1% full scale
Sensor Specifications	
<b>Response Time</b>	T90 = 10 seconds with full-scale calibration gas @ .75 litres/min. flow rate
<b>Ranges</b>	R Gases: 0-500 ppm, 0-1,000 ppm, 0-3,000 ppm CO <sub>2</sub> : 0-1%, 0-3%; NH <sub>3</sub> : 0-2%, 0-4%
<b>Sensor Viability Test</b>	SensorCheck, an internal microprocessor determines the sensor's electrical viability every 24 hours. If the viability test fails, a 0.5 mA signal will indicate a fault. An internal light will show if a sensor is dried up or disconnected.
<b>Enclosure</b>	16 gauge painted steel or stainless steel.
<b>Weight</b>	4.4 lbs.

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