

QIRF

Freon/Refrigerant Sensor



	GASES COVERED	
R22	R408a	R11
R123	R410a	R12
R134a	R407a	R438a
R404a	R507a	R116
R407c	R114	

Freons and refrigerants

The QIRF Freon gas detectors are configured to meet the international Mechanical Code, ASHRAE 15, and B52 requirements. Infrared technology facilitates specific gas type Freon detection without any cross-sensitive interferences. Sensor housings are thermally controlled at elevated temperatures to eliminate errors due to condensate formation and from temperature fluctuations allowing operation in temperatures from -45°C to +65°C. This series has the option of being connected to either the M-Controller or Q4C controller via RS-485 digital communication for a cost effective installation method. Controllers can be equipped with internal and external horns and strobes to alert personnel prior to entering the hazardous area. Consult ACI for specific gases.

The QIRF Series is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI's Sensors & Transmitters catalog or can be found on ACI's web site, which is: www.workaci.com.





Freon/Refrigerant Sensor

SPECIFICATION		
Supply Voltage	+18 to 30VDC or 15 to 24 VAC	
Outputs	4-20mA, +2-10VDC, Digital RS-485, Modbus	
Accuracy/Repeatability	+/- 3% of Reading/+/- 1.0% of full scale	
Gas Measurement Range	0 to 100 ppm (R123) / 0-1000 ppm (all other freons)	
Temperature Range	-45 to 65 °C (-49 to 149 °F)	
Operating Humidity	5 to 95% Continuous, 0 to 99% Intermittent(based on non-condensing)	
Operating Pressure Range	Atmospheric +/- 10%	
Sensor Type	Infra-Red Temperature Controlled	
Response Time	Less than 30 seconds typical for a 90% step change	
Sensor Life Span	14 years typical (under normal conditions)	
Relays	(3) SPDT, 1A max @ 30VDC and 0.3A maximum @125VAC (for resistive loads)	
Buzzer Rating	Rated for 80 dB @ 10cm, 2700 Hz	
Enclosure Materials	Polycarbonate/ABS blend IP66, NEMA 4x, 12, 13	
Keypad	4 magnetic sensors with magnet tool	
Indicators	(5) Red LED's for Relay Status; 2x8 character LCD display with backlight	

