CERTIFICATION CONTRACTION OF CONTRACT AND C

GENERAL

SHERLOCK NON-DISPERSIVE IR REFRIGERANT GAS SENSOR was designed to monitor for the presence of refrigerant gases within an enclosed space. The sensor is mounted within the space to be monitored and connected by cable to a *SHERLOCK*, *Wizard* or EMS System. Each sensor is calibrated to a specific refrigerant gas. The IR comes in two different styles depending upon the monitoring environments: machine room and cold room for refrigerated applications in NEMA 3R Aluminum, or Water-tight ABS fiberglass housing for Wash down protection (NEMA 3R pictured).

The IR Sensor is a reliable method of monitoring for refrigerant gas leaks in environments that have air quality problems. The IR sensor will eliminate many false alarms in environments that contain gasoline, diesel, and propane exhaust and fumes from solvents, paints, cleansers, and others (Please call Genesis Customer Support for more information).

APPLICATIONS

Typical applications include:

Wineries	HVAC Chiller Equipment Rooms
Bakeries	Refrigeration Mechanical Rooms
Refrigerated Rooms	Food Processing Plants

ENCLOSURE RATING NEMA 3R ABS Plastic

DIMENSIONS Inches (mm) 12 x 7 x 6 (305x178x152)

OPERATING ENVIRONMENT

IEMPEKAIUKE	
Machine Room Mo	del $32^{\circ}-120^{\circ}F(0^{\circ}-50^{\circ}C)$
Freezer Room Mod	el -40° - 120°F (-40°- 50°C)
HUMIDITY	0 TO 90% RH Non-Condensing
POWER INPUT	
Sherlock / Wizard	12VDC, 0.4 A
Stand-Alone	10V DC - 36V DC Switching
OUTPUTS (Standard) 0 to 20 mA (Sherlock/Wizard) 4 to 20 mA (Standalone Sensor)	
CUSTOM OUTPUTS (Stand-Alone Only)External 250 Ohm Resistance0 - 5V DC or 1 - 5V DCExternal 500 Ohm Resistance0 - 8 VDC or 2 - 8V DC	
EFFECTIVE RANGE 0 -1500ppm, Control Dependent	
SENSITIVITY	±1 ppm at 77°F (25°C), 45% RH
RESOLUTION	1 ppm
RESPONSE TIME	Under 30 Seconds
CALIBRATION	Every 6 Months
WARM-UP TIME	Readings will stabilize after 3 hrs
LIFE EXPECTANCY	Average of 5 to 7 years in normal environments

AVAILABLE GAS SENSORS

Machinery Room/Walk-In Cooler Application*R-22 - 60-0209R-23 - 60-0478R-123 - 60-0402R134a - 60-0461R-404a - 60-0494R-410a - 60-0463R-507 - 60-0236R-717,Ammonia/NH3 - 60-0235Please contact Genesis International if your sensor type is not listed.

* Sensor has "-WD" suffix for WashDown Housing).

Extended Temperature/Freezer Application**

** Sensor has "-WD" suffix for WashDown Housing & "-LT" to represent Extended (Low Temp).

