



GENESIS INTERNATIONAL, INC.

SHERLOCK JR

SOLID STATE STAND-ALONE REFRIGERANT GAS SENSOR



Sherlock JR

OVERVIEW

SHERLOCK JR provides 24 hour monitoring for the presence of CFC/HCFC, HFC or Ammonia based refrigerants. It is factory calibrated for the family of gases that it is designed to monitor.

SHERLOCK JR has a 4 to 20 milliamp analog output signal that is in proportion to the level of gas concentration and can be converted to a voltage output signal if necessary. The absence of the minimum value signal is used to indicate an open circuit and activate the alarm.

SPECIFICATIONS

Signal	4 to 20 mA Standard Convertible to DC Volts
Weight	5 oz.
Dimensions	4.75 x 2.5 x 1.5
Inches (mm)	(121 x 64 x 38)
Power	24V AC/DC 250 mA
Environment	40° to 120° F, (4° to 49° C) 35-90% RH non-condensing. Call Factory for lower temp applications
Range	
<i>CFC/HCFC</i>	0 - 1000 PPM
<i>HFC</i>	0 - 1000 PPM
<i>AMMONIA</i>	0 - 500 PPM
Accuracy	Approx. +/- 10%
Calibration	Sensor is factory calibrated for fresh air. Host system software controls alarm level, time delay, long term averaging, and possible rate of change functions.
Signal Cable	Up to 5000 feet: #18 AWG, Stranded & shielded cable.
Life Expectancy	Average of 3 to 5 years in normal environments

SHERLOCK JR

SENSOR SELECTION CHART

Model 82-0132 -- CFC/HCFC gases

R-11	R-290	R-411A(G2108A)
R-12	R-400(Lintern)	R-411B(G2108B)
R-13	R-402B(Hp81)	R-412A(TP5R)
R-22	R-403A(R-69S)	R-500(AZ50)
R-32	R-403B(R-69L)	R-502
R-113	R-405A(G2015)	R-508A(Klea5R3)
R-124	R-406A(CHG)	R-509A(TP5R2)
R-142B	R-409A(FX56)	

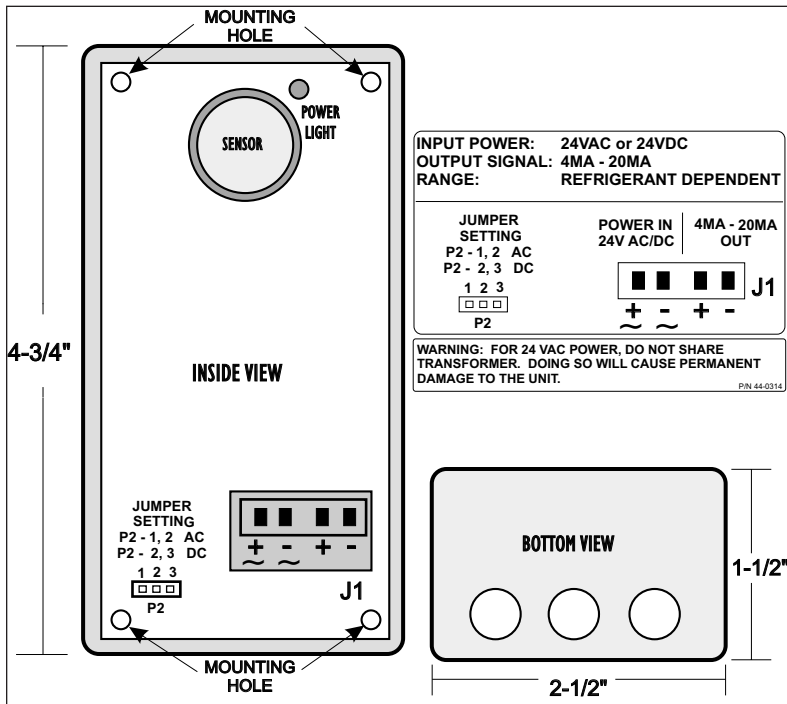
Model 82-0135 -- HFC gases

R-23	R-401C(MP62)	R-410B(9100)
R-123	R-404A(HP62)	R-413A
R-125	R-407A(Klea60)	R-503
R-134A	R-407B(Klea61)	R-507A(AZ50)
R-143A	R-407C(9000)	R-508B(SUVA95)
R-152A	R-407D(Klea)	R-410A(AZ20)
R-401A(Mp89)	R-401B(Mp66)	R-408A(FX10)

Model 82-0136 -- Ammonia

R-717

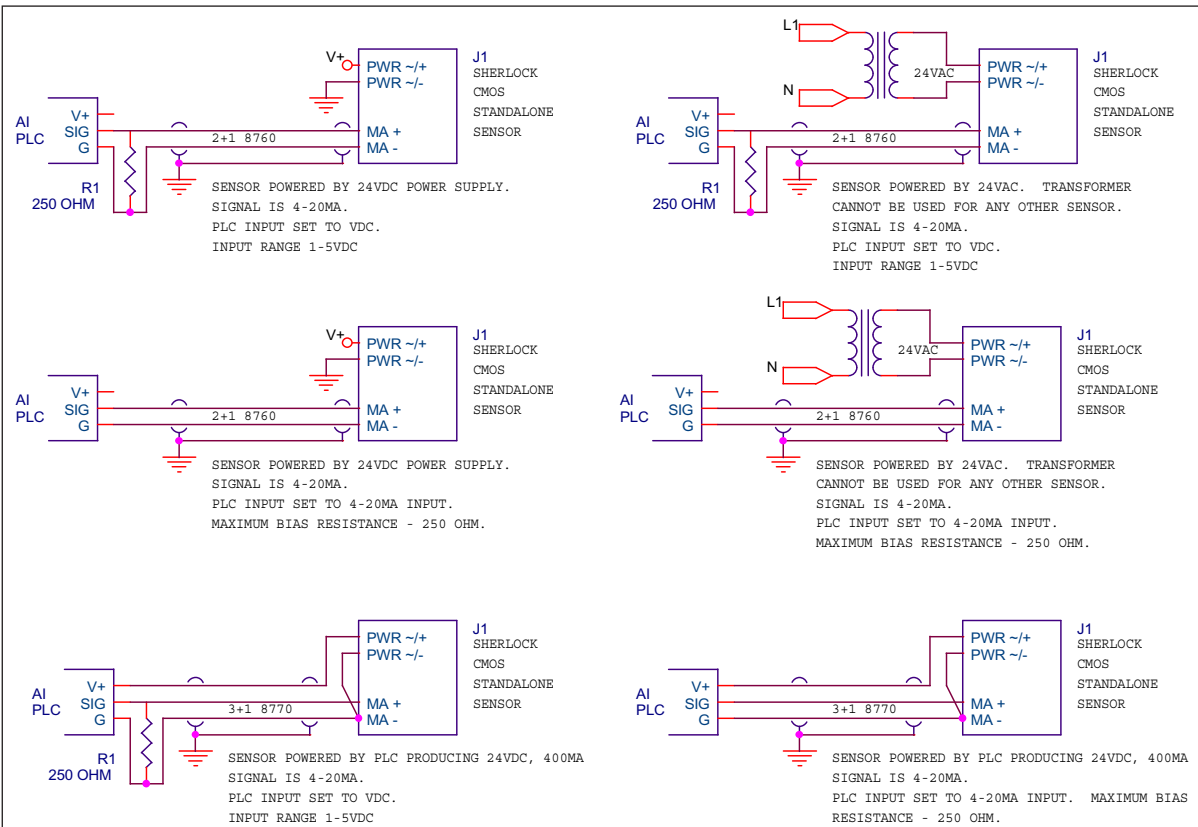
DIMENSIONS AND I/O



NOTE: These sensors, due to their nature, are susceptible to detection of non-refrigerant gases and cannot distinguish the presence of different refrigerant gases, only that there is a gas present. The CMOS sensor will detect concentrations of gasoline, diesel, and propane exhaust and fumes from solvents, paints, cleansers, and others. The stated accuracy is a best case and some newer refrigerant blends can be off as much as 50 to 100%. (Please call Genesis Customer Support for more information.)

NOTE: The stated average life expectancy for this sensor is 3 to 5 years, however, continued exposure to refrigerants and other gases and humidity and other adverse conditions can severely decrease sensor life.

TYPICAL WIRING DIAGRAMS



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