



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.

***** Please Note: Sensor Part Numbers Have Changed for Several Refrigerants, See the Sensor List on the 2nd Page *****

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
CFC/HCFC/HFC 0 - 1000 PPM
AMMONIA 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

CMOS SENSOR SELECTION CHART*

Model 82-0132 -- CFC/HCFC/HFC gases

R-22	R-405A(G2015)	R-503
R-123	R-406A(CHG)	R-507A(AZ50)
R-125	R-407A(Klea60)	R-508A(Klea5R3)
R-134A	R-407B(Klea61)	R-508B(SUVA95)
R-143A	R-407C(Klea66)	R-509A(TP5R2)
R-152A	R-407D	R-411A(G2108A)
R-400	R-408A(FX10)	R-411B(G2108B)
R-401A(MP39)	R-409A(FX56)	R-412A(TP5R)
R-401B(MP66)	R-410A(AZ20)	R-413A
R-401C(MP62)	R-410B	R-438A(MO99)
R-402A(HP80)	R-411A(G2018A)	R-503
R-402B(HP81)	R-411B(G2018B)	R-507(AZ50)
R-403A	R-412A(TP5R)	R-508A(Klea5R3)
R-403B	R-413A (ISCEON 49)	R-508B(SUVA95)
R-404A(HP62)	R-438A(MO99)	R-509A(TP5R2)

THE BELOW SENSORS WILL HAVE LIMITED DETECTABILITY USING THE 82-0132 CMOS

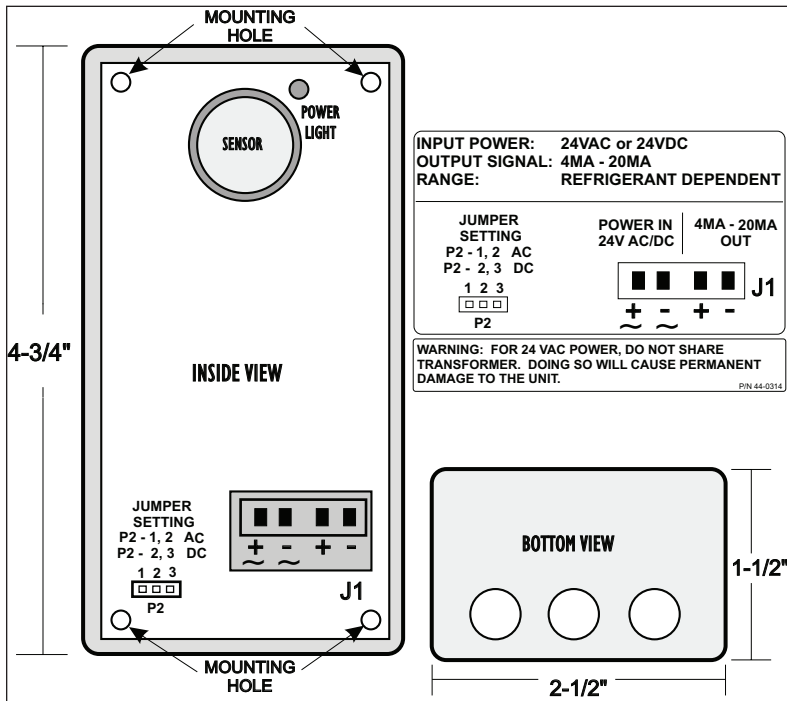
R-11	R-32	R-500(AZ50)
R-12	R-113	R-502
R-13	R-124	
R-23	R-142B	

Model 82-0135 -- Ammonia

R-717

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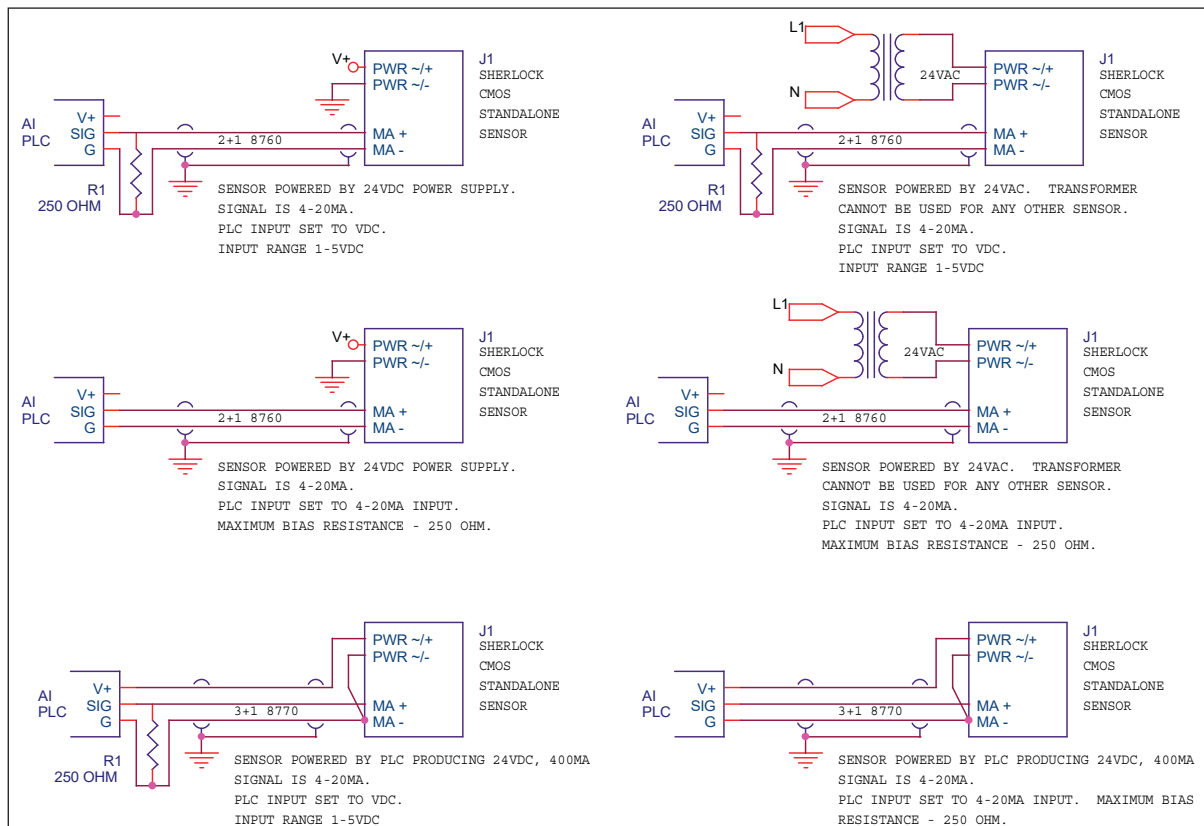
DIMENSIONS AND I/O



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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