



# GENESIS INTERNATIONAL, INC.

## SHERLOCK

### HIGH PRESSURE VENTLINE SENSOR



**HIGH PRESSURE VENT-LINE SENSOR KIT**

#### VENT-LINE SENSOR SELECTION CHART\*

##### Model 60-0509 -- 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	R-508B(SUVA95)
R-404A(HP62)	R-438A(MO99)	R-509A(TP5R2)

##### THE BELOW SENSORS WILL HAVE LIMITED DETECTABILITY USING THE 60-0508 CMOS

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

##### Model 60-0076 -- Ammonia

R-717

*\* Please Note: Sensor Part Numbers Have Changed for Several Refrigerants*

#### OVERVIEW

The **SHERLOCK** High Pressure Ventline Refrigerant Gas Sensor was designed to detect the presence of high concentrations of refrigerant gas in the vent lines of refrigeration systems. The sensor warns the user to investigate for possible leaks in relief valve or to check the systems for overpressure. The sensor is designed to be installed in refrigeration vent lines and is supplied in a NEMA 3R rated housing with a 1 1/4" NPT female connection. The Ventline Sensor can be utilized as a signal source for the **SHERLOCK** 2-Series or 4-Series Refrigerant Gas Monitoring Systems or the *Wizard* Evaporator Control System. There is an optional 4-20mA for EMS applications also available.

#### DIMENSIONS Inches (mm)

**ENCLOSURE** NEMA 3R  
6.5 x 4.5 x 5.0 (165 x 114 x 127)

**SENSOR HEAD** Nickel Plate  
4.0 x 2.0 x 2.25 (102 x 51 x 57)  
Sensor Opening:  
1.25 (31.75) NPT  
Female Connection

**CABLE** 20 Ft (6M) Belden #8443  
3-22 AWG Twisted

**ENVIRONMENT** -25 to 120 °F (-30 to 50 °C),  
0 to 95 % RH non condensing

**POWER INPUT** 12VDC, 250 mAmps

**OUTPUT SIGNAL** 0.5 to 5VDC (Sherlock)

**DETECTION RANGE** 30 to 300 ppm (gas dependent)

**SENSITIVITY** 10 % of full scale reading.

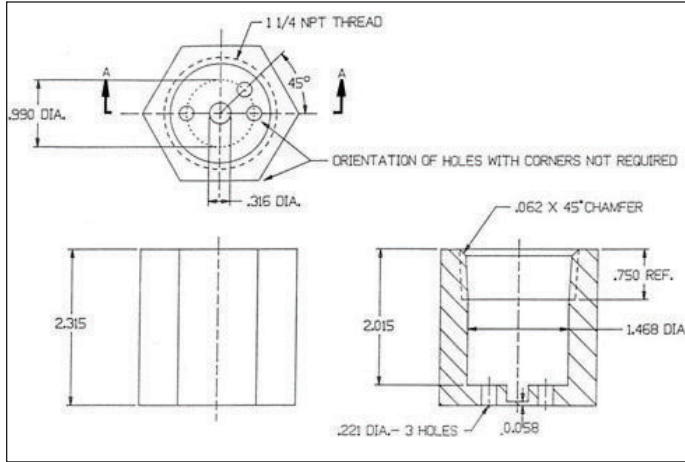
**MAX. PRESSURE** 300 psi

**CALIBRATION** Every 6 Months

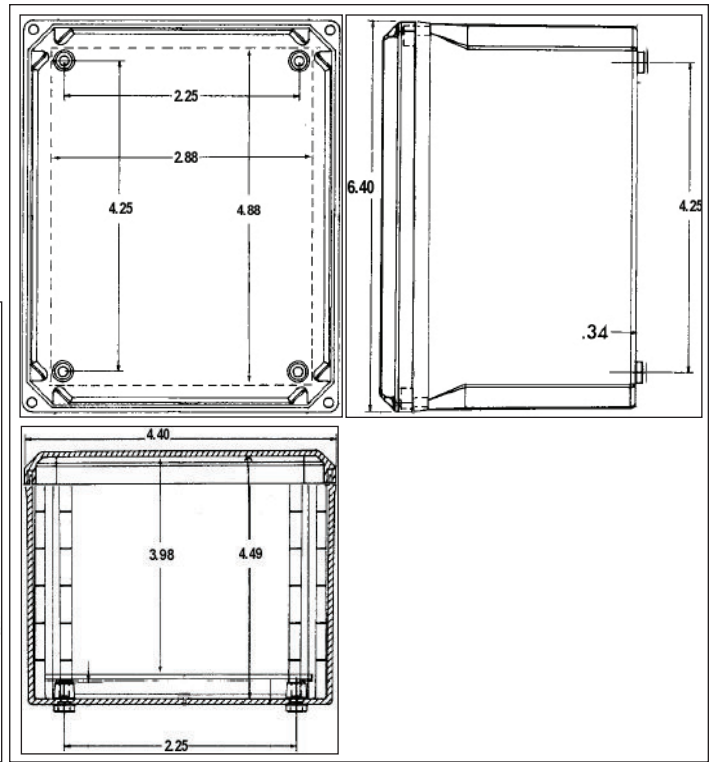
**WARM-UP TIME** Readings will stabilize  
after 3 hours.

## VENT-LINE SENSOR INDIVIDUAL COMPONENT DIMENSIONS

**NOTE:** Sensor element located in sensor head is replaceable. Remove old element with needlenose and line up prongs of new sensor and insert. minimize touching of element screen.

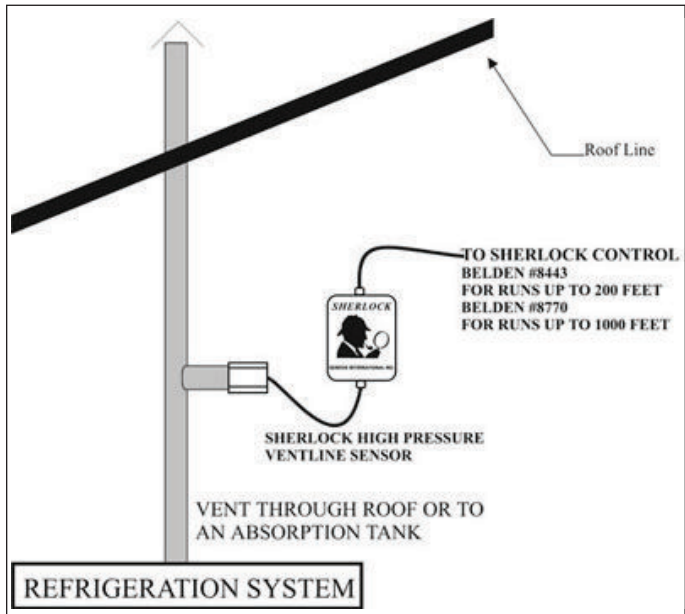


SENSOR HEAD

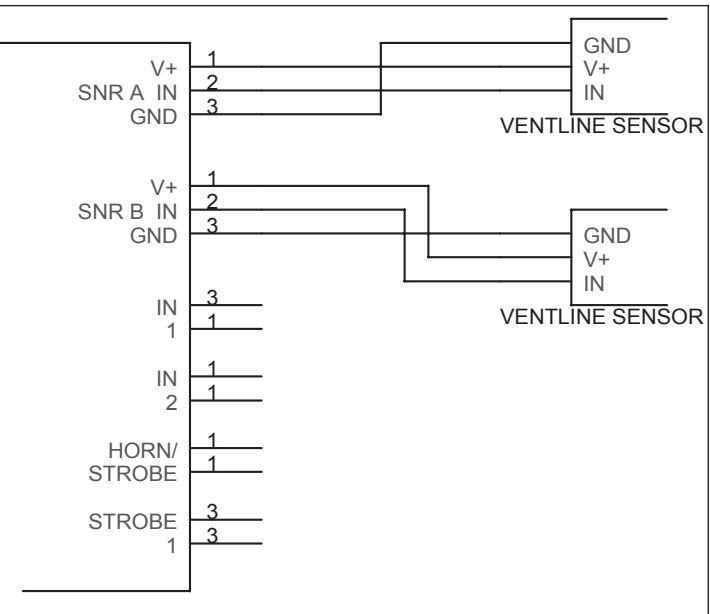


ENCLOSURE

### TYPICAL INSTALLATION



### TYPICAL WIRING DIAGRAM



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