



GENESIS INTERNATIONAL, INC.

SHERLOCK VENTLINE SENSOR



The SHERLOCK VENTLINE REFRIGERANT GAS SENSOR (VENTLINE) 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 3/4" NPT female connections.

There are two models of the Ventline Sensor, one for CFC/HCFC and HFC gases, and one for Ammonia. The Ventline Sensor should be utilized as a signal source for the SHERLOCK 2-SERIES or SHERLOCK 4-SERIES refrigerant gas monitoring systems or the *Wizard* EVAPORATOR control.

ENCLOSURE	NEMA 3R Housing (Sensor Wiring not Water Tight)
DIMENSIONS	4.3 x 3.5 x 4.0 (109 x 89 x 102) Inches (mm)
ENVIRONMENT	-25 to 120 °F (-30 to 50 °C), 0 to 95% RH non condensing
POWER INPUT	12V DC, 250mA
OUTPUT	0-20mA (Genesis Control)
DETECTION RANGE	20-1000 ppm(gas dependent)
SENSITIVITY	10 % of full scale reading.
CALIBRATION	Every 6 Months
WARM-UP TIME	Readings will stabilize After 3 hours.

VENT-LINE SENSOR SELECTION CHART*

Model 88-0149 -- 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 88-0150 CMOS

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

Model 88-0151 (60-0027) -- Ammonia

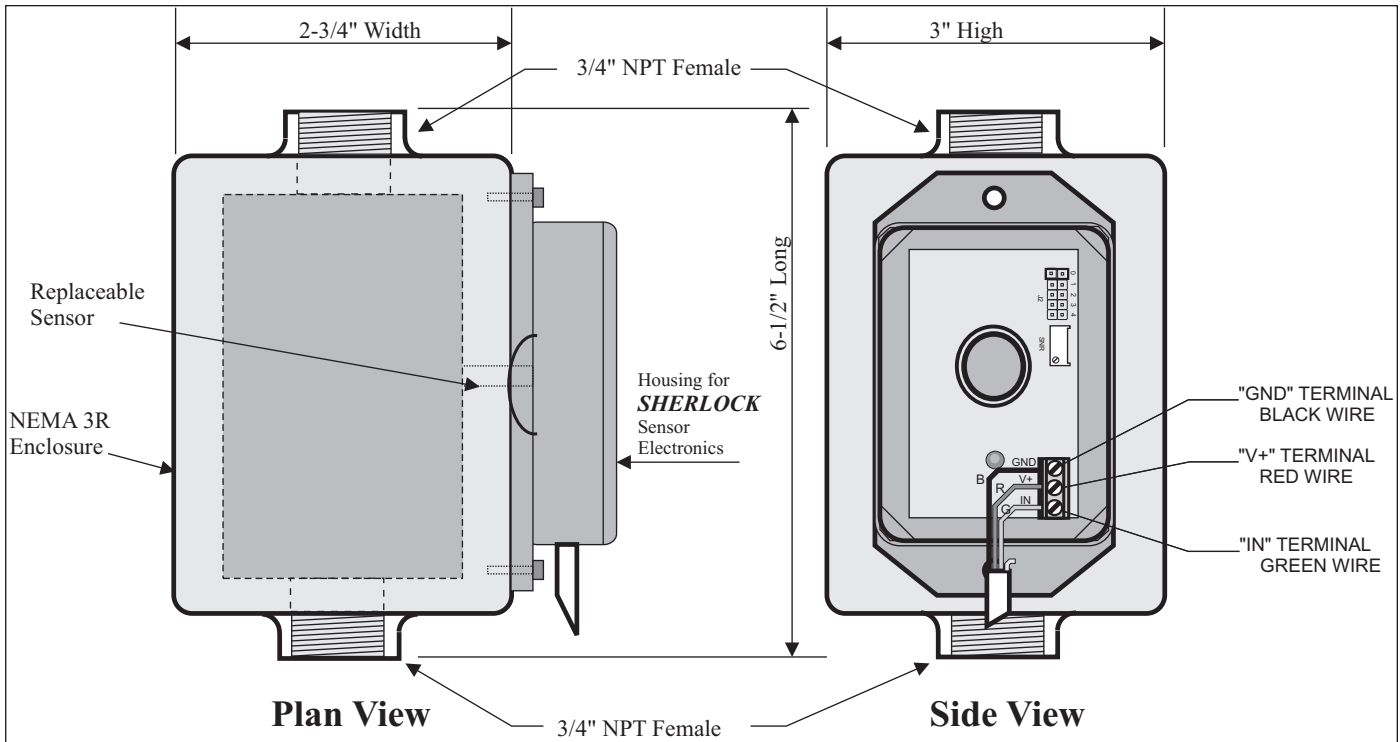
R-717

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

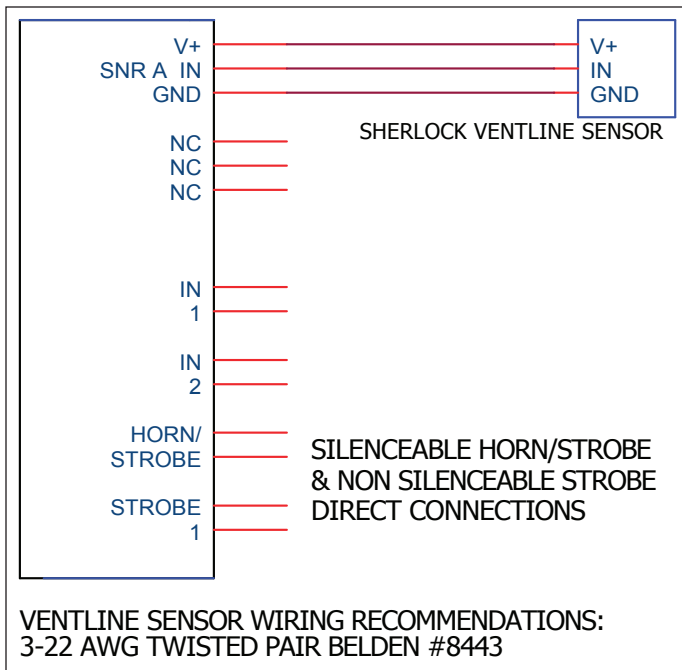
MISCELLANEOUS

- Can be read by the *Sherlock* 2-Series, 4-Series monitor and *Wizard* Evaporator Control System.
- Calibration is needed only once a year.
- Designed to detect high concentrations of refrigerant gases in vent lines
- Reading Range: 20 to 1000 ppm
- Sensitivity: ±10%
- Temperature range: 45°F to 120°F
- Relative humidity range: 0 to 95% (non-condensing)

VENTLINE SENSOR DIMENSIONS

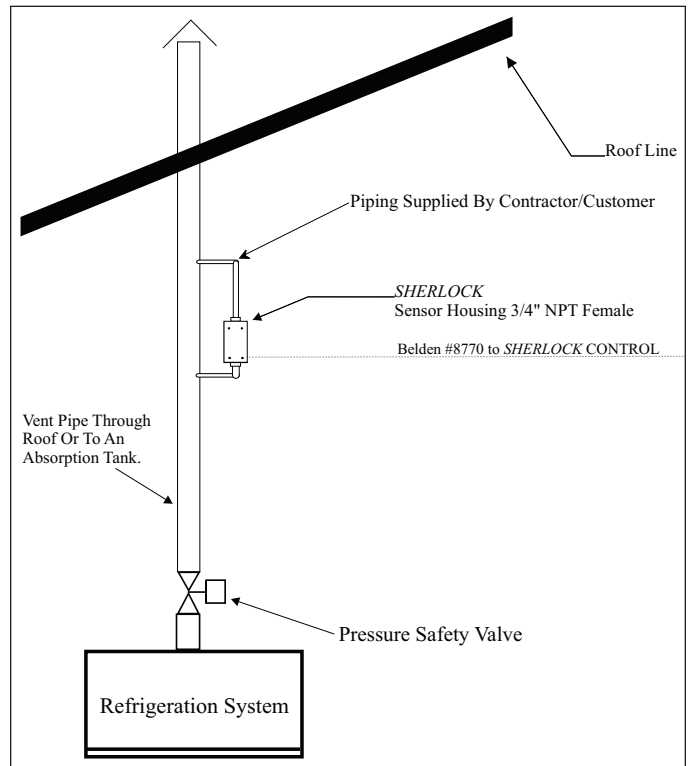


TYPICAL WIRING DIAGRAM



Typical applications include:
 · Monitoring of refrigeration system relief lines

MOUNTING SUGGESTIONS



GENESIS INTERNATIONAL, INC.

1040 FOX CHASE INDUSTRIAL DRIVE
 ARNOLD, MISSOURI 63010

PHONE: (636) 282-0011
 FAX: (636) 282-2722

WEBSITE:
WWW.GENESIS-INTERNATIONAL.COM

EMAIL:
MAIL@GENESIS-INTERNATIONAL.COM