



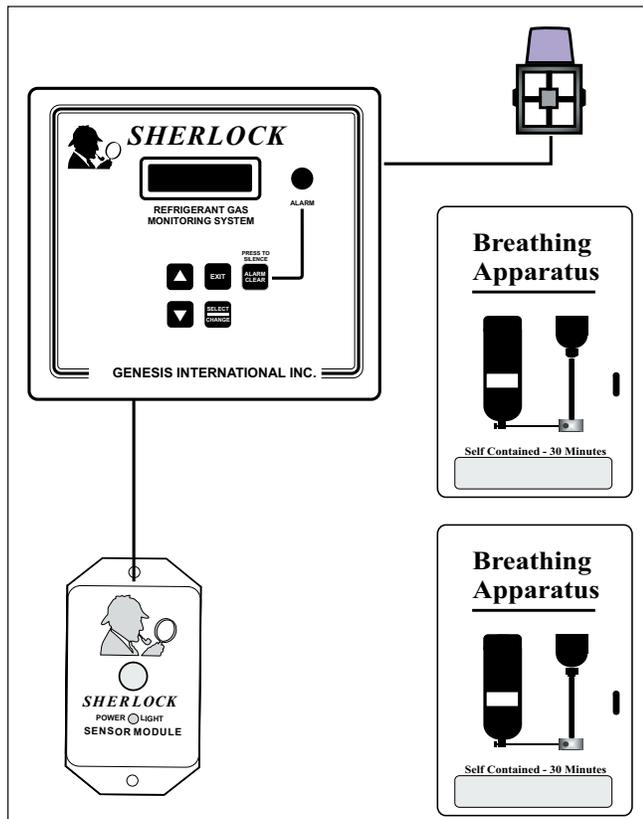
GENESIS INTERNATIONAL, INC.

SHERLOCK 102

REFRIGERANT GAS LEAK MONITORING AND ALARMING SYSTEM



Model #	Nema/IP Rating	Size Inches (mm)	Electrical Category	Pollution Protection
SHER102	1	7.25 x 8.0 x 3 (184 x 203 x 76)	II	2



TYPICAL MACHINE ROOM INSTALLATION

OVERVIEW

The SHERLOCK 102 (SHER102) Monitoring System was designed to monitor a SHERLOCK Refrigerant Gas Sensor, activating up to two alarms based upon user defined alarm level setpoints. The SHERLOCK 102 is compliant with ASHRAE 15-2004 and Mechanical Code requirements for refrigerant gas monitoring.

NEMA 1 Compliant Enclosure - This enclosure is intended for indoor use only primarily to provide a degree of protection against contact with the enclosed equipment. The enclosure is not designed to provide protection from water or to be placed in a hazardous environment. Mount only in Pollution Level 2 environments, ie. environmentally controlled offices, control rooms, or environmentally controlled machine rooms.

Power Universal Input Power Supply 90 to 250VAC, 50/60 Hz, 2 AMPS

Inputs One Sherlock Sensors: *Cmos, Ir* or One Oxygen Depletion Sensor

Outputs Four SPDT, 250vac, 3.15 Amp Relays. Two 12VDC For Audible/Visual
Optional 4-20mA Analog Signal

Setback 24 Hour Time Clock,
Two Dry Contact Digital Inputs

Alarms Two Alarm Levels, Two SPDT Relays per Level, Fuse On Common Terminal. One relay on each alarm level can be silenceable when in alarm.

Operating Environment

Temperature 35°F To 120°F (2°C To 50°C)
Humidity 0 To 95% RH Non-condensing

Display 2 Line By 20 Characters Alphanumeric Backlighted LCD display

Keypad 5 Tactile Pushbuttons - *Scroll Up, Scroll Down, Alarm Silent/Clear, Select/Edit/Change, Exit*

Alarm Indicators

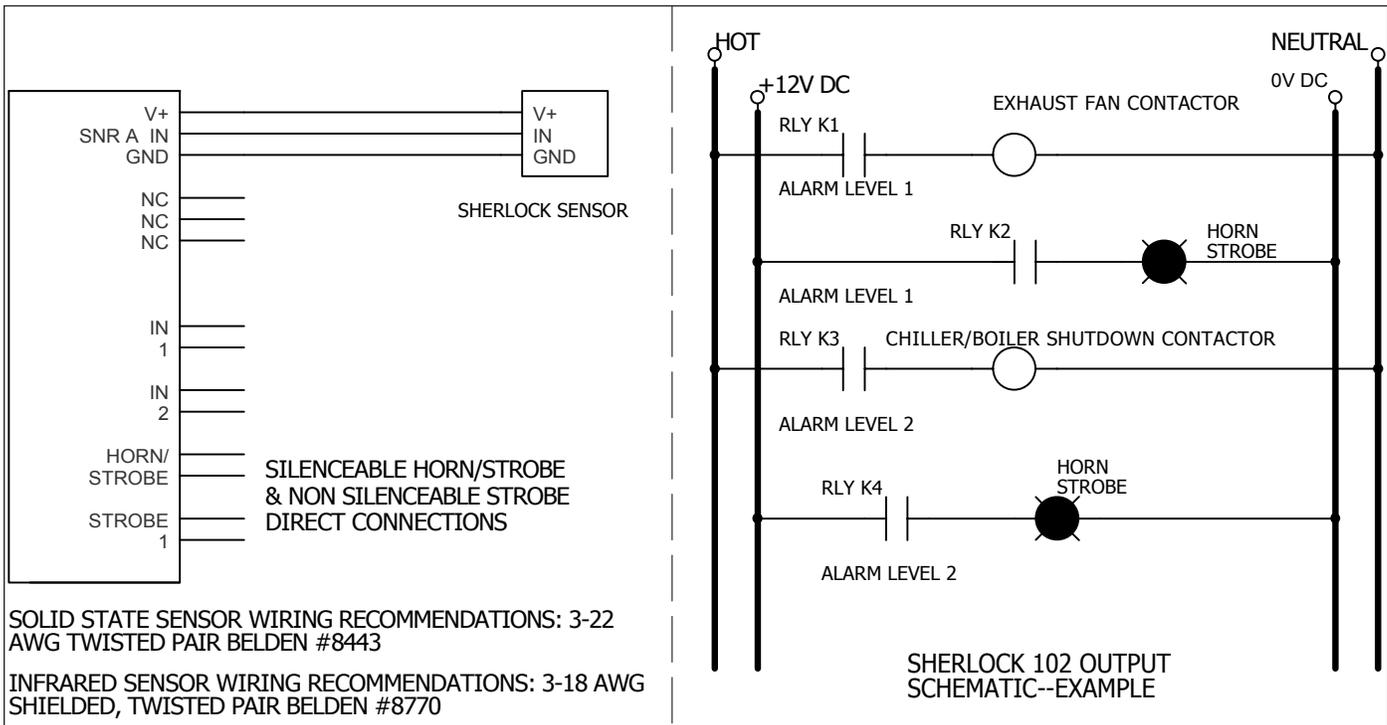
Display Name And Current Reading Of Alarming Sensor
Buzzer Built-in Piezo-electric, 90db @10ft, Silenceable
Light Built-in Flashing red Light on the front panel.

Listings ETL, Conforms to UL Std. 61010B-1
Certified to CAN/CSA
C22.2 Std. No. 1010.1-92

FEATURES

- Individual alarm setpoint and delay.
- Simple 3-wire low voltage hook-up. Different sensor styles and gases can be installed on the same control.
- Continuous monitoring of all sensors.
- Each alarm level an assigned 2 SPDT relays, One Silenceable One Non-Silenceable
- Display status will constantly display sensor levels, alarm setpoints and current alarm status.
- The Low Level (K1 & K2) relay can be set for a "Energize to Alarm" (NO) mode or a fail-safe "De-Energize to Alarm" (NC) mode.
- Each alarm can automatically reset (Latch Off) or require manual reset (Latch On) after a alarm condition clears.
- Sensor calibration by zeroing displayed reading.
- Capable of monitoring multiple gases.
- Real Time clock with battery back-up. Clock will continue to increment during a power outage.
- All settings are stored in permanent memory and will be re-called at power-up.
- Two 12 VDC Audible/Visual alarm connections. One Silenceable, One Non-Silenceable.
- **Optional Factory installed 4-20mA Analog Output for EMS Applications (SHER102-A)**

TYPICAL WIRING DIAGRAM



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