World Class
Infrared Refrigerant Monitors

The Environmental System IR-SNIF Multiple Channel Detection (MCD) monitors are "Early Warning" loss detection monitoring systems designed specifically for refrigerants.

SenTech's IR-SNIF-MCD models are cost effective, self-contained active air-draw sampling systems offering highly reliable Infrared based performance with the flexibility to satisfy a wide range of continuous monitoring applications. SenTech's monitors utilize NDIR (Non-dispersive infrared) and pyroelectric (absorptive sensing) technology featuring multi-zone detection point capability from a single field-programmable self-contained metal enclosure featuring SenTech's unique built-in leak wait period that minimizes nuisance false alarms.

The IR-SNIF-MCD multiple channel architecture combines Infrared detection of refrigerants available in single, four, eight and sixteen zone models with remote sensing capabilities for other gasses. With Infrared technology, each zone is capable of monitoring and responding to any one of 22 refrigerants from a standard library via keypad entry at concentration levels as low as one part per million (PPM). The IR-SNIF-MCD'S unique four remote transmitter configuration allows it to be a combined gas monitor that senses refrigerants AND any additional gases by a remote sensors such as Ammonia, Carbon Monoxide, Carbon Dioxide, Hydrogen, Oxygen and others.

SenTech's IR-SNIF-MCD monitors provide compliance with ASHRAE Standard 15.

Call for additional information on the IR-SNIF- MCD and other SenTech single and multi-zone monitors.

Environmental System IR-SNIF-MCD Refrigerant Loss Monitors

FEATURES

- Infrared sensor technology
- Active air draw sampling system
- Multiple zones (1, 4, 8, 16 zones)
- Sampling distance of 250 ft (500 ft coverage)
- Detects all halogen based refrigerants and blends
- Multiple channel architecture allows combined multiple gas detection configurations
- Factory calibrated-/-automatic electronic re-zeroing w/fresh air occurs after every air sample has been tested-/-No field calibration required for Infrared sensor

- Four line digital display w/ keypad for programming and operation
- Visual indication of alarm levels and system malfunction
- Three alarm levels (Four 5 amp contacts per relay)
- Separate programmable horn alarm relay
- 0-10 vdc analog output
- Setup function password protected
- Keypad access password protected to prevent tampering

- Optional Nema 4 enclosure with keyed lock
- Optional 4-20 ma analog output
- Optional individual zone alarm <u>output</u> to indicate alarm in each zone
- Optional four channel analog <u>input</u> for multiple channel detection operation
- Optional serial data output (RS 485 or RS 232)
- Optional remote control interface
- Optional Halon 1301/FM 200 fire suppression agent detection

- ETL listing pending – will conform to UL STD 3101-1 and CAN/CSA No. 1010.1
- Compliance with ASHRAE Standard 15
- Factory Mutual (FM) approval pending.

IR-SNIF-MCD MODELS

- IR-SNIF-MCD-1   1 Zone, 3 Alarm levels
- IR-SNIF-MCD-4   4 Zone, 3 Alarm levels
- IR-SNIF-MCD-8   8 Zone, 3 Alarm levels
- IR-SNIF-MCD-16   16 Zone, 3 Alarm levels
- IR-SNIF-MCD   Custom Configurations

ACCESSORIES

- Remote PPM indicator w/audible silent switch
- Remote transmitters: Carbon Monoxide, Oxygen, etc.
- Strobe light, Horn, Combination strobe/horn
- Air-sampling pickup tubing
- Calibrated test gas kit

SPECIFICATIONS

Sensitivity
As low as 1 PPM

Weight
32 lbs, (14.4 Kgs)

Dimensions
W 16.5in x H 15in x D 6.75in
(42cm x 38.1cm x 17cm)

Power Requirements
120/240 Volt 50/60 Hz

Range
0 to 1000 PPM

Alarm Trip Points
Low Alarm 0 to 100% of Full Scale
Main Alarm 0 to 100% of Full Scale
High Alarm 0 to 100% of Full

Operating Environmental Range
32° - 125° Fahrenheit
0° - 50° Celsius

Alarm Outputs
Indicator Light
Alarm Relays with 4 Form C contacts
(5 amps maximum)
RS 485 or RS 232 computer interface

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Continuous research leads to on-going product improvements; therefore these specifications are subject to change