Environmental System Refrigerant Loss Monitors

World Class Infrared Refrigerant Monitors

Single Zone	Dual Zone	Multi Channel
IR-SNIF-1,2,3	IR-SNIF-2,2,3	IR-SNIF-MCD

The Environmental System IR-SNIF Single, Dual and Multiple Channel Detection (MCD) monitors are “Early Warning” loss detection monitoring systems designed specifically for refrigerants.

SenTech’s IR-SNIF models are cost effective, self-contained active air-draw sampling systems offering hightly 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 minimiSes nuisance false alarms.

SenTech’s IR-SNIF 1,2,3 / 2,2,3 and MCD monitors provide compliance with ASHRAE Standard 15.

With Infrafred technology, the IR-SNIF 1,2,3 and 2,2,3 (each with three alarm levels) are capable of monitoring and responding to any one of 20 refrigerants from a standard library via keypad entry at concentration levels as low as ten (10) parts per million (PPM).

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.

FEATURES

IR-SNIF 1,2,3 & 2,2,3

- SenTech Blue powder coated NEMA 12 steel enclosure
- Infrared sensor technology
- Detects all halogen based refrigerants and blends
- Active air draw sampling up to 250 ft
- Factory calibrated-/-automatic electronic re-zeroing w/fresh air occurs after every air sample has been tested -/- No field calibration required
- Four line digital display w/keypad for programming and operation
- Visual indication of alarm levels and system malfunction
- Three alarm level relays, Low, Main & High
- Three (3) 2 amp relays (NO/NC contacts)
- Standard 0 - 10 vdc analog output
- Optional Nema 4 enclosure
- ETL listing pending – will conform to UL STD 3101-1 and CAN/CSA No. 1010.0
- Compliance with ASHRAE Standard

IR-SNIF MCD

- 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 output to indicate alarm in each zone
- Optional four channel analog input 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.

MODEL

IR-SNIF 1,2,3 (Single Zone w/3 Alarm levels)
IR-SNIF 2,2,3 (Dual Zone w/3 Alarm levels)

OPPTIONAL ACCESSORIES

- Strobe light, Horn, Combination strobe/horn
- Air-sampling pickup tubing

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

- 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

	IR-SNIF 1,2,3	IR-SNIF 2,2,3	IR-SNIF MCD
Sensitivity	as low as 10PPM	as low as 10PPM	as low as 1PPM
Weight	7.2 kg	8.1 kg	14.4 kg
Dimensions	25cm x 31.2cm x 12cm	25.4cm x 31.2cm x 17cm	42cm x 38.1cm x 17cm
Power	120/240 Volt 50/60 Hz	120/240 Volt 50/60 Hz	120/240 Volt 50/60 Hz
Range	0 to 1000PPM	0 to 1000PPM	0 to 1000PPM
Alarm Trip Points			
Low Alarm	0 to 100% of full scale	0 to 100% of full scale	0 to 100% of full scale
Main Alarm	0 to 100% of full scale	0 to 100% of full scale	0 to 100% of full scale
High Alarm	0 to 100% of full scale	0 to 100% of full scale	0 to 100% of full scale
Operating Environmental Range	0ºc - 50ºc	0ºc - 50ºc	0ºc - 50ºc
Alarm Outputs	Indicator Light Alarm relays with 4 Form C contacts (2 amps maximum)	Indicator Light Alarm relays with 4 Form C contacts (2 amps maximum)	Indicator Light Alarm relays with 4 Form C contacts (5 amps maximum) RS 485 or RS 232 computer inferface

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