



Monitors



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NEW Multi Zone Gas Leak Monitor

FOR HALOGEN AND AMMONIA REFRIGERANT GASES

The Multi Zone Gas Leak Monitor provides monitoring for low level conditions of CFC, HCFC, HFC and Ammonia refrigerant gases used in most commercial refrigerant systems. This state-of-the-art product leads the industry in performance, cost of ownership, integration capabilities and cost.

The MZ Advanage

FEATURES	ADVANTAGES	BENEFIT
PERFORMANCE		
Fastest response time	Fastest response time in the industry	Quick detection of gas leaks for immediate response
Longest sampling distance	1200ft monitoring distance vs. 500ft in major competitors' products	Greater flexibility for multiple chiller applications
38 refrigerant gas library	Most competitors are limited to 1-6 gases and may require factory programming at an additional cost	Supports multi-chiller, multi-gas applications and provides flexibility for the customer
COST OF OWNERSHIP		
Fresh air calibration to ambient air	No gas calibration required	Lower maintenance and less downtime
Infrared sensing technology	Long sensor life and virtually eliminates false alarms	Lower maintenance, less downtime and accurate leak management
Limited maintenance	Automatic re-zeroing eliminates need for calibration and simple annual filter replacement covers most service needs	Low cost and no downtime
INTEGRATION		
Integration of remote display (RDM) into front panel	Permits setup, configuration and diagnostics without a laptop or remote display	Complete diagnostic information can be obtained the front panel display without interrupting communication to the control system
Universal voltage switching power supply	Works with any voltage without concern of frequency	Reduces number of SKUs and supports integration in all voltage applications
Building management system compatibility	Capability to interact with popular communication protocols	Provides the ability to integrate with a wide range of customer system
ACQUISITION COST		
Integration of remote display (RDM) into front panel	Eliminates need for additional accessories, laptop or remote display to program	Reduced overall acquisition cost
Longest sampling distance	Eliminates need to purchase additional monitors	Reduced overall acquisition cost



The **Remote Display (HGM-RD/AGM-RD)** is a Multi Zone accessory that is placed in an alternate location from the MZ with complete access to the diagnostics, communications and control of the unit.

Features

- Remote access to control room for Multi Zone data and diagnostics
- Quickly identify and resolve potential system faults
- Rapid identification of alarm levels degree
- Can connect up to 4 Multi Zones expanding zone coverage to 64

Ordering Information

Multi Zones	
#3015-5043	Halogen gas monitor 4 zone
#3015-5044	Halogen gas monitor 8 zone
#3015-5045	Halogen gas monitor 12 zone
#3015-5046	Halogen gas monitor 16 zone
#3015-5047	Ammonia gas monitor 4 zone
#3015-5048	Ammonia gas monitor 8 zone
#3015-5049	Ammonia gas monitor 12 zone
#3015-5050	Ammonia gas monitor 16 zone
Multi Zone Remote Displays	
#3015-5138	Halogen
#3015-5139	Ammonia
Multi Zone Kits	
#3015-5330	HGM-MZ (4) zone with RD
#3015-5331	HGM-MZ (8) zone with RD
#3015-5332	HGM-MZ (12) zone with RD
#3015-5333	HGM-MZ (16) zone with RD
#3015-5334	AGM-MZ (4) zone with RD
#3015-5335	AGM-MZ (8) zone with RD
#3015-5336	AGM-MZ (12) zone with RD
#3015-5337	AGM-MZ (16) zone with RD

Specifications

HGM-MZ

AGM-MZ

Product Type:	The Multi Zone Gas Leak Monitor is a multiple area monitoring system for low level continuous monitoring of refrigerant gases used in most commercial systems including; CFC, HCFC, HFC and Ammonia. System design supports compliance to the gas monitoring requirements of ANSI/BSR ASHRAE 15-1994.	
Gas Library:	CFC: R-11, R-12, R-113, R-114, R-502, HFP HFC: R-404a (HP62), R-407a, R-407c (AC9000), R-134a, R-410a (AZ20), R-507 (AZ50), R-508b (SUVA95), R236FA, R125, R245Fa, R422a, R422d, R427a HCFC: R-22, R-123, R-124, R-500, R-503, R-401a (MP39), R-402a (HP80), R-402b (HP81), R-408a, R-409a, R-23, R21, R227 HALON: H1301, H2402, H1211 OTHER: FA188, FC72, N1230	Ammonia / NH3 / R-717
Sensitivity:	All gasses 1 ppm (R11 ±10 ppm ±15% of reading 0-1000ppm)	25 ppm
Measuring Range:	All gasses 0 to 10,000 ppm	Ammonia: 25 to 10,000 ppm
Accuracy:	±1ppm ±10% of reading from 0-1000ppm (R11 ±10ppm ±15% of reading 0-1000ppm)	±10 ppm from 25 to 100ppm, or ±10% of reading from 0-1000ppm
Front Panel:	3 Indicator lights: • Green = Monitor is powered on. LED glows during normal operation; flashes when unit is in warm-up mode • Red = Alarm. LED flashes when any point has exceeded the alarm setting. • Yellow = Fault. LED flashes when there is a system fault	
Size and Weight:	12.23" H x 13.7" W x 4.96" D / 15 lbs.	
Temperature Drift:	±0.3% of reading per degrees C	
Coverage:	4 point standard, expandable to 16 points in 4 point increments	
Detector Type:	Infrared Non-Dispersive	
Sampling Mode:	Automatic or manual (hold)	
Re-Zero:	Auto or on zone change	
Response Time:	5 to 120 seconds – depending on air line length and number of zones	
System Noise:	Less than 40dB(A) @ 10 feet (3m)	
Monitoring Distance:	1,200 ft. maximum for combined length of sample + exhaust tubing (each zone)	
Conditional System:	Dual optional 4-20mA isolated outputs. Channel 1 = zone area, Channel 2 = PPM	
Alarms:	Four SPDT alarm contacts are provided (rated 5 Amps at 250 volts) Three assigned to PPM level alarms, one assigned to system faults	
Communications:	Full two-way communication with proper remote display module or building management system via RS485 MODBUS-RTU serial interface. RS-232C communication port standard	
Power Safety Mode:	Fully automatic system reset. All programmed parameters retained.	
Operating Temp:	32 to 122 °F (0 to 50 °C)	
Ambient Humidity:	5% to 90% RH (non-condensing)	
AC Power:	100 to 240 VAC, 50/60 Hz, 20 W	
Certification:	UL 61010-1, CAN/CSA 22.2 No. 61010-1 & CE Mark	
Warranty:	2 years from date of shipment	
Altitude Limit:	6,562 ft (2,000 m)	

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