

GAS & SPECIALTY SENSORS

MULTI-ZONE REFRIGERANT GAS MONITOR

MODEL HGM-MZ



DESCRIPTION

The **Model HGM-MZ Multi Zone Refrigerant Gas Monitor** is designed for continuous multi-point monitoring of CFC, HFC, and HCFC refrigerants and halogen gases. The standard unit monitors four discrete points and can be expanded to sixteen point monitoring in four point increments. The unit features 34 preprogrammed refrigerants plus one custom gas. Three adjustable alarm levels with relay output designate leak, spill, and evacuation concentrations. Gas alarms and system fault conditions are indicated by visual and audible alarms. The **Model HGM-MZ** provides a system fault relay output and RS-485 serial interface for integration with a building management system.

FEATURES

- **Four-point monitoring expandable to sixteen points**
- **38 preprogrammed refrigerants and one custom**
- **Up to 1200 ft (365m) distance between measuring point and monitor**
- **Three alarm levels and system fault alarm with SPDT contacts**
- **Self diagnostics verify operation**
- **100 data point logging**
- **Audible and visual alarm indication with silence button**
- **Local indication of current and peak gas levels**

CAUTION: Not to be used as a life-safety device.

SPECIFICATIONS

Power requirements	100 to 240 VAC, 50/60 Hz, 21W
Sensing technology	Single pass, infrared non-dispersive
System gas library	R-11, R-12, R21, R-22, R-23, R-113, R-114, R-123, R-124, R-125, R-134a, R-227, R-236FA, R-245FA, R-401a, R-402a, R-402b, R-404a, R-407a, R-407c, R-408a, R-409a, R-410a, R-422a, R-422d, R-427a R-500, R-502, R-503, R-507, R-508b, H-1211, H-1301, H-2402, N-1230, FA188, FC72, HFP
Monitoring distance	1200 ft (365m) maximum per zone
Measuring range	0-10,000 ppm
Accuracy	±1 ppm ±10% reading
Sensitivity	1 ppm
Output	3 SPDT alarm relays, 1 fault relay, 250 VAC, 3A; Dual 4-20mA output (optional)
Response time	5 to 120 seconds depending on sample tube length
Communication	RS-232C port, RS-485 serial interface, MODBUS
Operating ranges	
Humidity	5% to 90% RH (noncondensing)
Temperature	32° to 122° F (0° to 50° C)
Dimensions	12.2"L x 13.7"H x 5.0"D (31 x 35 x 12.7 cm)
Weight	15 lb (6.8 kg)
Approvals	UL (61010-1), CSA, CE
Warranty	2 years

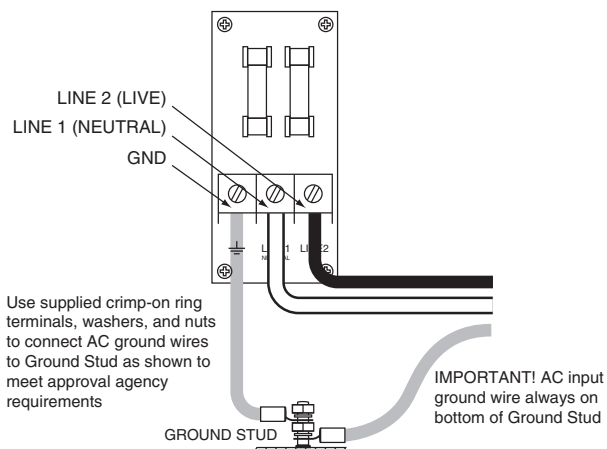
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INSTALLATION

The monitor should be located outside the mechanical room and readily accessible for verification and servicing. The sample line should be located as close as possible to the source of a potential leak.

WIRING



ORDERING INFORMATION

MODEL	DESCRIPTION
HGM-MZ	Multi zone refrigerant monitor (4-zone)
HGM-RD	Remote display
3015-5152	Dual 4-20mA output board
3015-5171	Four zone expansion kit*
3015-3411	Line end filters (4)

*NOTE: Must order 3015-3411 filter kit.

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