GAS & SPECIALTY SENSORS

BACHARACH REFRIGERANT (TUBE) GAS MONITOR



DESCRIPTION

The Bacharach Model HGM-SZ Single Zone (tube) Refrigerant Gas Monitor is designed for continuous monitoring of CFC, HFC, and HCFC refrigerants and halogen gases with a 1/4" O.D. tube up to 50 ft (15m) distance from measuring point to monitor. The unit features 30 pre-programmed 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-SZ provides a system fault relay output and a 4 to 20 mA output for integration with remote monitoring equipment or building management systems.

The HGM-SZ Single Zone (tube) Refrigerant Gas Monitor is designed to be used as part of a control system that helps to prevent the formation of a hazardous environment when properly installed and maintained.

FEATURES

- · 43 pre-programmed refrigerants and one custom
- · Self diagnostics verify operation
- · Three alarm levels with SPDT alarm contacts
- System fault alarm
- 200 data point logging
- · 4-20 mA output signal
- 50-foot sampling tube and end filter included
- · Local indication of current and peak gas levels
- · Alarm-silence button
- NEMA 1

SPECIFICATIONS

Supply Voltage 100 to 240 VAC, 50/60 Hz, 15 VA Accuracy ±1 ppm ±10% reading Signal Output

3 alarm relays, 1 fault relay, 240 VAC, 5A, (5% DIF) and 4-20 mA

 500Ω (non-isolated)

Sensitivity 1 ppm

Measurement Range 0-10,000 ppm

Sensing Technology Single pass, infrared non-dispersive Gases Detected R-11, R-12, 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-500, R-502, R-503, R-507, R-508b, H-1211, H-1301,

H-2404, N-1230

Warm Up Time 15 minutes

Response Time 9 to 90 seconds depending on

sample tube length

Coverage 1/4" O.D. tube up to 50 ft (15m)

from measuring point to monitor Operating Temperature 32° to 122°F (0° to 50°C)

Operating Humidity 5% to 90% RH non-condensing **Enclosure Rating** NEMA 1

7.7"H x 3.6"D x 13.7"L **Dimensions** (20 x 9 x 35 cm) Weight 11.1 lb (5.0 Kg)

Approvals UL file #E212266, CSA, CE

2 years Warranty







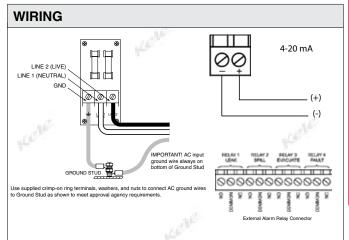






INSTALLATION

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



ORDERING INFORMATION

MODEL **DESCRIPTION HGM-SZ** Single zone refrigerant monitor

RELATED PRODUCTS

M1104KF Replacement line end filter

NIOSHSCBA-WC Self-contained breathing apparatus kit

with SCBA-WALCASE wall case UCK-1 Universal calibration kit for non-

corrosive gases (N2, CO2, CH4, H2, 02, CO, and refrigerants)

125-SS-2 Replacement charcoal filter* CO, CO2, NO2, O2, CH4, NH3, N2, Calibration Gases H2S, H2, and Refrigerants

(See calibration page)

Tubing

*NOTE: Recommend replacing every six months