

HGM, Multi-zone gas monitor

Multiple refrigerant gases and multiple area monitoring system for low level continuous monitoring of CFC, HCFC and HFC refrigerant gases used in most commercial refrigeration systems.

System design supports compliance to the refrigerant monitoring requirements of ANSI/BSR ASHRAE 15-2007 and ASHRAE safety code 34-2007.

Features HGM-400



Facts

Benefits:

- Detects, measures, and displays the level of refrigerant gas in the area being monitored
- Automatically logs up to 200 gas readings that can be printed/plotted for analysis
- Eliminates false alarms with use of non-dispersive IR source and sample draw system
- Extensive self-diagnostics, providing both visual and audible indications when a fault occurs

Design features:

- Optional models: LCD display, IP65 enclosure, EExd (Explosion)
- Two digital outputs low level and high level alarm
- Manual or automatic alarm reset optional
- Battery powered, providing 8-12 hours of operation

Application:

- Commercial refrigeration
- Cold Storage Facilities
- Supermarket/Hypermarket
- Distribution Centres
- Air Conditioning
- Chillers

Technical data and ordering

HGM-MZ

Specification

Specification	Description
Product type	Multiple refrigerant gases and multiple area monitoring system for low level continuous monitoring of CFC, HCFC and HFC refrigerant gases used in most commercial refrigeration systems. System design supports compliance to the refrigerant monitoring requirements of ANSI/ BSR ASHRAE 15-2007 and ASHRAE Safety Code 34-2007
Sensitivity	All gases 1ppm
Measuring range	All gasses 0 to 10.000 ppm
Accuracy ¹	±1 ppm ±10% of reading from 0-1000ppm (R11, R22, and R113 ±10ppm ±15% of reading 0-1000ppm)
Gas library	CFC: HFP, R-11, R-12, R-113, R-114, R-502; HFC: R125, R-134a, R236FA, R245Fa, R32, R-404a (HP62), R-407a, R-407c (AC9000), R-410a (AZ20), R422a, R422d, R427a, R-507 (AZ50), R-508b (SUVA95) HCFC: R-123, R-124, R21, R-22, R227, R-23, R-401a (MP39), R-402a (HP80), R 402b (HP81), R-408a, R-409a, R-500, R-503; Halon: H1211, H1301, H2402; Other: FA188, FC72, H1234YF, N1230, R424A, R426A, R438A, CUSTOM.

General Multi-zone

Specification

Specification	Description
Size (H x W x D)	12.23" x 13.7" x 4.96" (31.06cm x 34.80cm x 12.60cm)
Weight	15lbs. (6.8kg)
Sampling mode	Automatic or manual (hold)
Re-zero	Auto or on zone change
Response time	5 to 315 seconds - depending on air line length and number of zones
System noise	Less than 40dB(A) @ 10ft (3m)
Monitoring distance	1.200ft (366m) maximum for combined length of sample + exhaust tubing (each zone)
Conditioned signal	Dual optional 4-20mA DC isolated outputs. Channel 1 = zone area, Channel 2 = PPM
Alarms	Four SPDT alarm contacts rated 2A at 250VAC (inductive) 5A at 250VAC (resistive). Three are assigned to PPM level alarms, one assigned to system faults.
Communications	Full two-way communications with Remote Display Module or Building Management System via RS 485 serial interface. RS-232C communications port standard
Power safety mode	Fully automatic system reset. All programmed parameters retained
Operating temperature	32 to 122°F (0 to 50°C)
Ambient humidity	5 % to 90% RH (non-condensing)
AC power	100 to 240VAC, 50/60Hz, 20W

Technical data and ordering

DHGM

Gas monitor

DANFOSS HALOGEN GAS MONITOR (DHGM-8 zone)	080Z2151
Components included	Qty
DHGM Unit	1
Line End Dust filter	8
Purge/ Fresh Air Carbon Filter	1

Note: Tubing not supplied

DHGM

Components

DHGM components (16 zone)	LP-DHGMKIT
Components included	Qty
Line End Dust filter	3
STRAIGHT ¼ X ¼ BSP"	2
EQUAL CROSS ¼ PUSH IN	3
Plastic Silencer ¾ BSPP "WHITE"	10
Straight ¼" x ¾ BSP	10
Socket ¾ - ¾	2
¾ BSP F/F Elbow	8
Straight 6mm x ¼ BSP	2
¼ Mini filter	2
¼ EQUAL TEE CONNECTOR	5
Black 1" brackets	25
PU tubing 6mm - 300 meters rolls	2

Note: Individual Components not sold separately.

080Z2154 - 4-20ma Output card required for all Danfoss frontend controllers

DHGM

Maintenece kit

DHGM Maintenece kit	LP-DHGM8M
Components included	Qty
End of Line Filters	23
Hyperbolic Filter	1
Water Trap: Internal Filter Element	2
Purge/ Fresh Air Carbon Filter	1

DHGM

Spares

Spares	
4 port manifold	LP3015-5072
5 port manifold Block w/ Purge	LP3015-5080
HGM Sampling Pump with connector	LP3015-5176
Rabbit Processor Board	LP3015-5546
Replacement Manifold fitting	LP3015-5753
Charcoal filter	C01680417