

MULTI-ZODE Fixed Refrigerant Monitors



New Family of Multipoint / Multigas Refrigerant Monitors from

HGM300 / RDM800

For Continuous Multi-Point Monitoring of CFC, HFC, HCFC and Halon Refrigerant Gases



AGM300 / ADM800

For Continuous Multi-Point Monitoring of Ammonia Refrigerant Gases



Innovations in Infrared Technology

- Select refrigerants to be measured point by point!
- Eliminate False alarms with use of a non-dispersive IR source with sample draw system
- Measure all gases up to 10,000 ppm with a sensitivity of 1 ppm
- · Sample points located up to 500 feet from unit

Split Architecture Design

- Remotely interrogate, acknowledge alarms, provide maintenance and evaluate operating conditions
- Quick field expansion from 4 to 16 sampling zones with only a screwdriver
- · Bolt-in-Bolt Out internal components so the unit never leaves the wall

Enhanced Communication Protocols

- Full two-way communication through RS-485 to the Remote Display Module and Building Management Systems such as Modbus RTU*
- RS232C port for local / modem communication
 (* For other communication protocols, such as LonTalk or N2 (Metasis), please contact the factory.)

Cost Effective

- Split-architecture design keeps your investment to a minimum
- Two-year warranty protects your investment

Phone: 1-800-736-4666

System design supports compliance to the refrigerant monitoring requirements of ANSI / BSR ASHRAE 15 1994/2001. Certified in compliance to UL # 3101-1, CE # EN613262, and EN61010-1.



Headquarters: 621 Hunt Valley Circle, New Kensington, PA 15068 U.S.A. Canada: 1-800-328-5217 E-Mail: help@bacharach-inc.com Website: www.bacharach-inc.com



SPECIFICATIONS	NDIR, MULTI-ZONE SAMPLE DRAW SYSTEMS
Refrigerants:	
HGM300 Model	CFC: R-11, R-12, R-113, R-114, R-502
	HFC: R-404a (HP62), R-407a, R-407c (AC9000), R-134a, R-410a (AZ20), R-507 (AZ50), R-508b (SUVA95)
	HCFC: R-22, R-123, R-124, R-500, R-503, R-401a (MP39), R-402a (HP80), R-40b (HP81), R-408a, R-409a, R-23
	HALON: 1301
	Measuring Range: 0 to 10,000 ppm
AGM300 Model	R-717 (Ammonia) Measuring Range: 25 to 10,000 ppm
Inputs:	4 point standard, expandable to 16 points in 4 point increments
Output Signal:	3 SPDT, 5 Amp, 240 VAC rated alarm relays and 1 SPDT, 5 Amp, 240 VAC rated system fault relay, plus a Digital Display w/ an optional dual 4-20 mA DC analog output.
Detector Type:	Non-dispersive infrared
Measuring Range:	All gases 0 to 10,000 ppm
Sensitivity:	All gases 1 ppm
Accuracy:	All gases \pm 10 ppm from 0 to 100 ppm, \pm 10% of reading from 100 to 10,000 ppm
Front Panel Display:	Green LED indicates when unit is operating properly. Red LED indicates when any monitored point is above its alarm setting. Yellow LED indicates a clogged sample line or other system fault.
Response Time:	5 to 120 seconds, depending on tube length and gas concentration
Max. Monitoring Distance:	Up to 500 feet from measuring point to monitor
Power:	120 VAC / 60 Hz (Standard) 240 VAC / 50 Hz
Size/Weight:	17" L x 12" W x 5.5" D / 15 lbs (43.18cm L x 30.48cm W x 13.97cm D / 6.8 Kg)

SPECIFICATIONS	REMOTE DISPLAY MODULES
RDM800 Model	Compatible with HGM300 Model
ADM800 Model	Compatible with AGM300 Model
Inputs:	Accepts from one to four inputs via RS-485 from up to four HGM300 Refrigerant Monitors
Display:	Backlit LCD displays the measured point in ppm
Trend Mode / Data logging:	User may select a graphical display of the ppm trend for any measured point (100 data entries per point)
Output Signal	2 SPDT, 5 Amp, 240 VAC assignable alarm relays
Alarm Indications:	Channel display flashes, red light flashes, alarm signal sent via RS-485
Input Fault Indication:	Yellow light flashes and the LCD indicates location of input fault
Max. Monitoring Distance:	Maximum of 4,875 wiring feet from the furthest HGM300 to the RDM800 Display
Power:	120 / 240VAC, 50 / 60 Hz
Size/Weight:	11" L x 10" W x 3" D / 5 lbs (wall mounted)

When ordering this product, you must specify 3 codes: These 3 codes will build up a part number. Codes must be listed in the following sequence.

Code A- Model Number Code B- Number of Zones Code C- Input Power Type

For example, to order a 4-zone, 120 VAC Ammonia Monitor with a standard analog output and standard calibration, you would order a: AGM300-11-1

Remote Display Modules, options and accessories must be ordered as separate line items.

ORDERING INFORMATION FOR MONITORS		
Code A	Model Number	
HGM300	For use with CFC, HFC, HCFC and Halon Refrigerants	
AGM300	For use with Ammonia Refrigerants	
Code B	Number of zones and connection type	
-11	4 Zones with metal tube fittings	
-12	8 Zones with metal tube fittings	
-13	12 Zones with metal tube fittings	
-14	16 Zones with metal tube fittings	
Code C	Input Power Type	
-1	120 VAC / 60 Hz (Standard)	
-2	240 VAC / 50 Hz	

ORDERING INFORMATION FOR REMOTE DISPLAY MODULES		
3015-2875	RDM800 120 VAC / 60 Hz	
3015-2885	RDM800 240 VAC / 50 Hz	
3015-4195	ADM800 120 VAC / 60 Hz	
3015-4196	ADM800 240 VAC / 50Hz	

OPTIONS / ACCESSORIES		
PART NO.	DESCRIPTION	
3015-4121	120 VAC surge protection	
3015-4122	230 VAC surge protection	
3015-4123	4-20 mA dc surge protection (two required)	
3015-3133	Dual 4-20 mA DC output PC board	
3015-3069	Visual alarm 120 VAC	
3015-3070	Audio alarm 120 VAC	
3015-3076	Audio / Visual alarm 120 VAC	
3015-3423	Annual maintenance kit	
3015-3235	Air sample tubing (250'per roll)	

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