



Fixed Gas Monitors

Single-Zone Gas Leak Monitor HGM-SZ - AGM-SZ



Features & Benefits:

- Proprietary infrared sensing technology virtually eliminates false alarms and extends sensor life
- Capable of detecting and measuring any CFC, HFC and HCFC refrigerant gas or ammonia
- Provides continuous, unattended monitoring from up to 500 ft. (152.4 m) away from measuring point
- Measurement range of 0-10,000 ppm with sensitivity of 1 ppm
- Logging feature enables 200 gas readings to be stored at user-selectable time intervals
- No costly calibration required

Low Maintenance Continuous Monitoring

The Bacharach Single-Zone family of fixed point gas monitors is available for the detection of refrigerants, halogen gases (HGM-SZ) and ammonia (AGM-SZ). The Single-Zone series is designed around Bacharach's proprietary infrared sensing technology to offer reliable, superior sensing performance.

Bacharach's infrared (NDIR) sensors offer users one of the most feature loaded, lowest-cost-of-ownership monitors available. The Single-Zone monitors feature automatic calibration, eliminating the need for costly calibrations. Periodic filter replacements are practically the only maintenance required.

An easy-to-install, out-of-the-box solution, Bacharach's Single-Zone monitors offer an onboard power supply, LCD display for real-time readings and LED indicators with dedicated relays that activate audible or visual alarms. A 4-20 mA output enables a compatible connection to standard building automation systems.

Single-Zone Specifications

	HGM-SZ	AGM-SZ
Part Number:	3015-4200	3015-4280
Includes:	HGM-SZ single zone monitor with: 1 termination filter, 15.24 m (50 ft.) of sample line tubing.	AGM-SZ single zone monitor with: 1 termination filter, 15.24 m (50 ft.) of sample line tubing.
Measures:	R-11, R-12, R-22, R-23, R-113, R-114, R-123, R-124, R-125, R-134a, R-227, R236FA, R-401a, R-402a, R402b, 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	Ammonia (NH ₃) - also known as R-717
Measuring Range:	0 to 10,000 ppm	25 to 10,000 ppm
Sensitivity:	1 ppm	25 ppm
Accuracy:	± 1 ppm ± 10% of reading from 0 to 1,000 ppm	± 20 ppm ± 10% of reading from 25 to 1,000 ppm
Detector Type:	Single-pass Non-Dispersive Infrared (NDIR)	
Inputs:	Dedicated single zone	
Output Signal:	3 SPDT, 3 Amp, 250 VAC rated alarm relays and 1 SPDT, 3 Amp, 250 VAC rated system fault relay, plus a digital display with dedicated 4-20 mA DC analog output (floating ground)	
Monitoring Distance:	Maximum 152.4 m (500 ft.) from measuring point to monitor	
Response Time:	9 to 90 seconds, depending on sample tube length	
Front Panel Display:	Green LED: indicates unit is operating properly Yellow LED: indicates clogged sample line or other system fault Red LED: indicates when any monitored point exceeds alarm settings	
Power:	100 to 240 VAC, 50/60 Hz	
Size / Weight:	13.7" x 7.7" x 3.6" / 7 lbs. (347.98 mm x 195.58 mm x 91.44 mm / 3.175 kg)	
Approvals:	UL 61010-1 • CSA 22.2 No. 61010-1 • EN 14624 • CE Mark	

Single-Zone Ordering Information

3015-4200	HGM-SZ Halogen Gas Monitor - Single Zone (with termination filter, 15.24 m of sample tubing, & 15.24 m (50 ft.) exhaust/purge line tubing)
3015-4280	AGM-SZ Ammonia Gas Monitor - Single Zone (with termination filter, 15.24 m of sample tubing, 15.24 m (50 ft.) exhaust/purge line tubing)
0304-2742	AGM-SZ Sample/Exhaust/Purge Line Tubing
0304-2743	HGM-SZ Sample/Exhaust/Purge Line Tubing (note: #0304-2742 is req'd for AGM-SZ sample line)
3015-3420	Termination filter
3015-4121	120 VAC surge protector
3015-4122	220 VAC surge protector
3015-4123	4-20 mA surge protector
3015-5490	24 VDC Audible/Visual Audible Alarm
3015-3492	24 VDC Visual Alarm
3015-3076	120 VAC External Audible/Visual Alarm
3015-5529	Single-Zone Annual Maintenance Kit

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