

Gas Detector/Monitor IAM+100

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Features & Benefits:

- Real-time continuous gas detection that's scalable, reliable and affordable
- Ideal for commercial applications such as hotel rooms, apartments, dorms, hospitals, restaurant kitchens or battery charging rooms
- Detects refrigerants (at \geq 1,000 or \geq 10,000 ppm), TVOCs (at \geq 1,000 ppm), combustible gases and hydrocarbons (at \geq 5,000 ppm)
- Fast-responding, long-life sensors
- Integrated visual LED and audible alarms
- Two onboard relays to activate shut-off valves, exhaust fans, or connect to a BMS or fire panel
- Remote sensor with aesthetic faceplate available for discreet monitoring in decorative interiors



Economical Standalone or System Wide Monitoring

The IAM-100 Gas Monitor from Bacharach offers exceptional continuos monitoring performance and flexibility at an economical price. By itself, or integrated into a comprehensive detection system, the IAM-100 is a scalable solution for detecting a variety of refrigerants, combustible gases and VOC gas leaks at the lowest possible cost.



Optional IAM-Controller

Onboard LEDs illuminate when the sensor is in an alarm state while the unit's audible alarm alerts personnel in the area that levels have exceeded the desired limit. The audible alarm can be muted with the onboard silence switch. Integrated dual relays enable the IAM-100 to shut-off refrigerant or propane supply lines while the second relay can be used as a connection to a building BMS or BAS system.

The IAM-100 is an alarm threshold device. When the range of the sensor is exceeded, the detector will go into alarm. For example, a unit with a 1,000 ppm R-410a sensor will activate its alarm when the detected refrigerant meets or exceeds 1,000 ppm.

IAM-100 Technical Specifications

Power Supply:	110 VAC/60 Hz or 220 VAC/50 Hz; 11W max.
Power Monitoring:	Green LED
Visual Alarm:	Red LED
Audible Alarm:	Internal buzzer (with onboard mute button)
Fault Monitoring:	Yes: (Red LED On, Green LED Off, Siren Off)
Relays:	2 Relays: each rated 1 Amp @ 24 VDC
Alarm Delay:	Selectable: 0, 5, 10 or 15 minutes
IP Rating:	IP30
Sensor Type / Life:	Semiconductor (multi-gas) / 5-8 year life
Temperature Range:	-4° to 122°F -20° to 50°C
Humidity Range:	0-95% Non-condensing
Calibration:	Annual test or calibration recommended. Refer to manual for sensor specific instructions
Warm-up Delay:	5 mins. initially
Approvals:	CE • IEC/EN 61010 • UL/CSA 61010-1
Dimensions & Weight: (enclosure types)	5.8"x 3.47"x 2.44" • 1lb. 6oz. 147 x 88 x 62mm • 633g

IAM-100 Gas Types & Detection Ranges Semiconductor Sensor - Threshold Ranges

Refrigerants:

HFCs: including R-134a, R-410a, R-404a, R-507, R-407	at \geq 1,000 ppm or at \geq 10,000 p
HCFCs: including R-22	at \geq 1,000 ppm or at \geq 10,000 p
CFCs: including R-11	at \geq 1,000 ppm or at \geq 10,000 p
ydrocarbons: including Methane, Natural Cas, Pronano	at ≥5,000 ppm

Natural Gas, Propane Butane, LPG, Hydrogen Isobutane

VOCs:

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including Acetone, Chloroform, Ethanol, Methanol, Methyl and Methylene Chloride, Ethyl and Ethylene Chloride

ppm

ppm

ppm

at \geq 1,000 ppm

IAM-Controller Technical Specifications

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ower Supply:	110 VAC/60 Hz or 220 VAC/50 Hz; 11W max.		
ower Monitoring:	Green LED		
'isual Alarm:	Red LED		
udible Alarm:	External buzzer (with onboard mute button)		
ault Monitoring:	Yes: (Red LED On, Green LED Off, Siren Off)		
elays:	2 Relays: each rated 10 Amp @ 110/220 VAC		
P Rating:	IP51		
flax Cable Distance: controller - transmitter)	300 m (984 ft.); 16-24 AWG		
pprovals:	CE • UL/CSA 61010		
limensions & Weight: enclosure types)	Standard IP30	10.3"x 10.4"x 3.3" • 5lb. 12oz. 262 x 265 x 84mm • 2.6kg	

IAM-100 Ordering Information

IAM-100 Common Configurations			
6201-1107	R-410a 1,000 ppm • Standard Housing • 110 VAC powered		
6201-1143	R-410a 10,000 ppm • Standard Housing • 110 VAC powered		
6201-5107	R-410a 1,000 ppm • Remote w/faceplate • 110 VAC powered		
6201-5143	R-410a 10,000 ppm • Remote w/faceplate • 110 VAC powered		
6202-1107	R-410a 1,000 ppm • Standard Housing • 220 VAC powered		
6202-1143	R-410a 10,000 ppm • Standard Housing • 220 VAC powered		
6202-5107	R-410a 1,000 ppm • Remote w/faceplate • 220 VAC powered		
6202-5143	R-410a 10,000 ppm • Remote w/faceplate • 220 VAC powered		
6201-1103	R-404a 1,000 ppm • Standard Housing • 110 VAC powered		
6201-1113	R-290 5,000 ppm • Standard Housing • 110 VAC powered		
6201-1101	R-134a 1,000 ppm • Standard Housing • 110 VAC powered		
6201-1105	R-407a 1,000 ppm • Standard Housing • 110 VAC powered		
6201-5114	CH ₄ 5,000 ppm • Remote w/faceplate • 110 VAC powered		
6201-5119	H ₂ 5,000 ppm • Remote w/faceplate • 110 VAC powered		
6201-5120	Ethylene 5,000 ppm • Remote w/faceplate • 110 VAC powered		
6201-5121	VOC 1,000 ppm • Remote w/faceplate • 110 VAC powered		
6201-5151	LPG 5,000 ppm • Remote w/faceplate • 110 VAC powered		
6202-5114	CH ₄ 5,000 ppm • Remote w/faceplate • 220 VAC powered		
6202-5119	H ₂ 5,000 ppm • Remote w/faceplate • 220 VAC powered		
6202-5120	Ethylene 5,000 ppm • Remote w/faceplate • 220 VAC powered		
6202-5121	VOC 1,000 ppm • Remote w/faceplate • 220 VAC powered		
6202-5151	LPG 5,000 ppm • Remote w/faceplate • 220 VAC powered		

IAM-Controller Ordering Information IAM-Controller Options 6700-0100 110 VAC powered 6700-0101 220 VAC powered

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