





ALARM AND SYSTEM STATUS LED



uw distributeur | servicepartner

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onderdeel van MITMA



FEATURES

Fits in standard electrical boxes	Easy to install	
Low profile/Flush mount	Aesthetically non-intrusive appearance	
Two relays and Modbus Communications	Notify building management & initiate counter measures	
Alarm options including: LED, buzzer, two levels, configurable delay and fail-safe	Alert occupants and remotely inform building management of alarm location for rapid response as required	
Refrigerant specific sensor	Enhances safety ¹ and minimizes refrigerant loss	
Self diagnostics and simple field calibration	Easy to maintain	
Unique plug-in field replaceable pre-calibrated sensor	Low cost of ownership	

BENEFITS

DESCRIPTION

The MVR-300 detector is specifically designed to provide continuous monitoring for refrigerants associated with high-efficiency, high volume refrigerant cooling and heating systems, such as VRF/VRV (Variable Refrigerant Flow/Variable Refrigerant Volume) sytems. Typical applications include hotels, dormitories, hospitals, office buildings, and apartment buildings.

The MVR-300 audible and visual alarms alert occupants and simultaneously communicate to Building Management Systems/Building Automation Systems (BMS/BAS). Two on-board relays can be used to close valves, activate alarm devices and exhaust fans or initiate emergency calls to rescue teams.

The on-board Modbus RTU interface provides real-time information about refrigerant concentrations, status and settings. It also enables custom configuration of the MVR-300 to any application specific requirements using multiple Modbus registers.

The MVR-300 is designed for easy installation and simple maintenance.

Important Note: Large refrigerant leaks into occupied spaces can reach concentrations that pose a suffocation risk to the occupants. The MVR-300 is not designed to be used as the sole safety device for this risk. Safety of the occupants also must take a system designed approach that includes things such as ventilation, detection, early warning, mitigation and design redundancy.

For more information about the MVR-300 and other Bacharach products scan here.







REFRIGERATION

ORDERING INFORMATION

REFRIGERANT	P/N	LOW ALARM*	HIGH ALARM*	RANGE
R-410a	6203-0001	500 ppm	2,000 ppm	2,500 ppm
	6203-0002	1,000 ppm	2,000 ppm	5,000 ppm
	6203-0003	2,000 ppm	4,000 ppm	10,000 ppm
6203	6203-0011	500 ppm	2,000 ppm	2,500 ppm
	6203-0012	1,000 ppm	2,000 ppm	5,000 ppm
	6203-0013	2,000 ppm	4,000 ppm	10,000 ppm
R-404a	6203-0021	500 ppm	2,000 ppm	2,500 ppm
	6203-0022	1,000 ppm	2,000 ppm	5,000 ppm
	6203-0023	2,000 ppm	4,000 ppm	10,000 ppm
6203-00	6203-0041	500 ppm	2,000 ppm	2,500 ppm
	6203-0042	1,000 ppm	2,000 ppm	5,000 ppm
	6203-0043	2,000 ppm	4,000 ppm	10,000 ppm

*Factory default; can be changed through Modbus. Recommended 6 month testing/recalibration

TECHNICAL DATA

DESCRIPTION	
R-410a, R-407c, R-404a, R-32	
2,500 ppm, 5,000 ppm, 10,000 ppm	
Flush mount, white ABS, Fits in most 2-gang electrical back-boxes	
6" x 4.1" x 1.75" (150 x 105 x 45 mm) including bezel	
Indoor: IP40, NEMA 1	
8 oz (230 g)	
100 to 240 VAC, 50/60 Hz, 4 W max.	
Tri-color LED: green, amber, red	
80 dB at 12" (30 cm)	
Two SPDT: low alarm and high alarm / fault, normal or fail-safe; configurable	
0 to 15 minutes; configurable 0, 5, 10, 15	
Power: 3-core cable, 14 to 20 AWG (0.5 to 2.0 mm ²)	
Relay: 3-core cable, 18 to 20 AWG (0.5 to 1.0 mm²)	
Modbus: 2-core twisted pair shielded cable 18 to 24 AWG	
Baud Rate: 9,600 or 19,200; configurable	
Operating Temperature: 32 to 120 °F (0 to 50 °C)	
Storage Temperature: 5 to 100 °F (-20 to 40 °C)	
Humidity: 5 to 90% RH, non-condensing	
Pressure: 23.6 to 32.5 inch of Hg (800 to 1,100 hPa)	
0 to 6,560 ft. (2,000 m) altitude	
2 year minimum life with recommended 6 month testing and/or recalibration	
CE, UL/CSA/IEC/EN 61010-1	

