

Press Release

FOR IMMEDIATE RELEASE

Bacharach Simplifies EN 378 Refrigerant Safety Compliance with MGS-400

SCALABLE SYSTEM & MOBILE APP USER INTERFACE REDUCE MAINTENANCE TIME BY 80%, LOWER INSTALLATION & COMMISSIONING COSTS

New Kensington, PA — October 15, 2018 — [Bacharach, Inc.](#), a leading provider of HVAC-R gas instrumentation, announces the introduction of the [MGS-400 Series Refrigerant Gas Detectors](#) for commercial and industrial refrigerant and gas leak monitoring applications. The MGS-400 series supports safety compliance inside of machinery rooms, chiller plants, cold storage facilities and walk-in freezers by monitoring for dangerous refrigerant leaks. The ability to detect refrigerant leaks and quickly initiate alarm systems helps to protect personnel and achieve compliance with safety standards like ASHRAE 15, CSA-B52 and EN 378.



MGS-400 Series Refrigerant Gas Detectors allow users to interface with the device using a mobile app, making configuration and maintenance simple and intuitive. Reducing commissioning and installation time, the MGS-400 delivers on efficiency and cost savings while allowing for plug-and-play, pre-calibrated sensor installation and replacement in the field. Simple installation and maintenance eliminates the need for lengthy, in-field calibration procedures that require multi-meters and manual adjustment of potentiometers.

The optional MGS-408 Gas Detection Controller supports up to eight sensor channels and enables a centralized alarm and power system. With Modbus connectivity, the controller integrates with any facility's existing building management or automation system. The MGS-408 will also connect with Bacharach's MGS-250 IR-based refrigerant monitor and the dual-sensor MGS-550, allowing for flexibility of individual site requirements.

"We used our engineering expertise and long history of experience in refrigerant leak detection throughout the development of the MGS-400 product series. Our customers were asking for ease of use and easy installation and maintenance as an improvement to their current refrigerant detection systems. By focusing on new solutions, such as a mobile app user interface, and plug-and-play sensor technology, what used to take 25 minutes per gas detector now takes less than 5 minutes and can be done without training," said Tom Burniston, Product Manager, Refrigerant Leak Detection. "By making the controller double as the power supply and using a daisy-chained Modbus, the unit requires only one cable hook-up, saving time and simplifying installation. Through our robust product development and our expertise in refrigerant leak detection, we are surpassing industry standards with this product series," he said.

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Key Features of the MGS-400 system include:

Reduced Installation Time and Costs.

- Quick set-up using mobile app to configure alarms and Modbus settings, initiate calibration and tests
- Power and connect up to 8 points with the controller
- Plug-and-play, in-field, pre-calibrated sensors

Regulatory Safety Compliance.

- Supports compliance for ASHRAE 15-2013, CSA-B52 and EN 378:2016
- On-board audible and visual alarms
- Alarm relay output to initiate mechanical ventilation or additional horn / strobes
- High and low alarm levels to ensure appropriate response

Reduced Maintenance, Service and Training.

- On-board instrument diagnostics for effective on-site service
- "Service Due" indicator and sensor exposure counter for effective pro-active maintenance programs
- Minimal training required due to simple calibration process

Optimized Performance.

- Minimizes false refrigerants alarms with programmable alarm delays
- Temperature compensated measurement of natural refrigerants and halogens
- Maintains audit trail by generating field calibration certificates through the app

System Components.

- MGS-410 Gas Detector (IP66, Digital Communications)
- MGS-450 Gas Detector (IP66 or IP41, Digital and Analog Outputs)
- MGS-460 Gas Detector (IP66, Digital and Analog Outputs with Remote Sensor)
- MGS-408 Gas Detection Digital Controller
- MGS-400 Mobile Application (Compatible with Android and iOS Devices)

The MGS-400 Series will be on display in Hall 5 / Stand 5-408 at the Chillventa International Exhibition from October 16 – 18. Bacharach invites conference attendees to speak with their representatives about refrigerant safety standards and demo the MGS-400's intuitive user interface.

For more information about product availability, visit Bacharach's website at www.mybacharach.com.

About Bacharach

Bacharach is a provider of cleantech solutions for gas and refrigerant leak detection, combustion and emissions analysis instrumentation, and energy management for commercial and industrial applications. Bacharach products make the heating, ventilation, air-conditioning and refrigeration (HVAC-R) industries safer, cleaner, and more energy efficient, enabling customers to increase productivity, reduce costs, and protect lives and the environment. Please visit www.mybacharach.com for additional information.

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