

Ribble Enviro
...everything gas detection

Data Sheet

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Multi-Zone Refrigerant Gas Monitor

Precision Monitoring for Low-Level Refrigerant Leak Detection



Bacharach's Multi-Zone gas library contains 65+ refrigerants including CFCs, HFCs, HCFCs, HFOs, and natural refrigerants.

Capable of monitoring up to 16 zones



Proprietary infrared (NDIR) sensor accurately detects the presence of a target gas down to an industry-leading 1 ppm Minimum Detection Level (MDL)

Backlit display shows real-time concentration readings

Easy to use interface with LED traffic light notifications

BEST IN CLASS FOR EARLY DETECTION

MSA Bacharach's Multi-Zone refrigerant monitors provides precise measurements enabling early warning, continuous leak detection for compliance with refrigeration safety codes (*ASHRAE 15/34 and CSA-B52*) and emissions reduction standards (*EPA 608/CARB and F-Gas*).

- Non-Dispersive Infrared (NDIR) sensor accurately detects the presence of a target gas down to an industry-leading 1 ppm Minimum Detection Level (MDL)
- Sensor is not prone to false alarms caused by cross-interference from other gases or sudden changes in temperature or humidity
- Gas library contains 65+ refrigerants, including CFCs, HFCs, HCFCs, HFOs and natural refrigerants (R-744, R-717, R-290, R-600, R-600a, SF6)*
- Backlit display shows real-time concentration readings and makes configuration and self-diagnostics intuitive
- Capable of monitoring up-to 16 zones and detecting multiple gases with a single monitor
- Two optional analog outputs (4-20mA) and Modbus communications for integration with third-party BMS / BAS control systems
- Three user-configurable relays (leak, spill and evacuate) may be used to activate external beacons / sounders, ventilation or other countermeasures
- One dedicated fault relay

*sensor-dependent

Specifications

Sensor Channels	4 to 16
Sensitivity / Minimum Detection Level	Refrigerants: 1 ppm, Ammonia: 20ppm, CO ₂ : 10ppm, Hydrocarbons: 5 ppm
Enclosure Rating Sampling distance 0-1200ft (0-365m)	General Purpose
Sampling Mode	Automatic with auto re-zeroing
Analog Communications	4 to 20 mA (optional)
Digital Communications	Modbus RTU via RS 485 BACnet MS/TP and IP (optional)
Buzzer	80 dB @ 10 cm
Product Dimensions (L x W x H)	13.7" x 12.3" x 5" (350 mm x 315 mm x 130 mm)
Product Weight	15 lbs. (6.8 kg)
Sensor Type	NDIR
Power	100-240V AC, 50 / 60 Hz Input
Expected Sensor Service Life	10 Years
Supports/Enables Compliance with Industry Codes & Regulations	CARB RMP, F-Gas Regulation
Product Performance Approvals	CE, UL, CSA, EN 61010-1, EN 61326
Warranty	2 Years

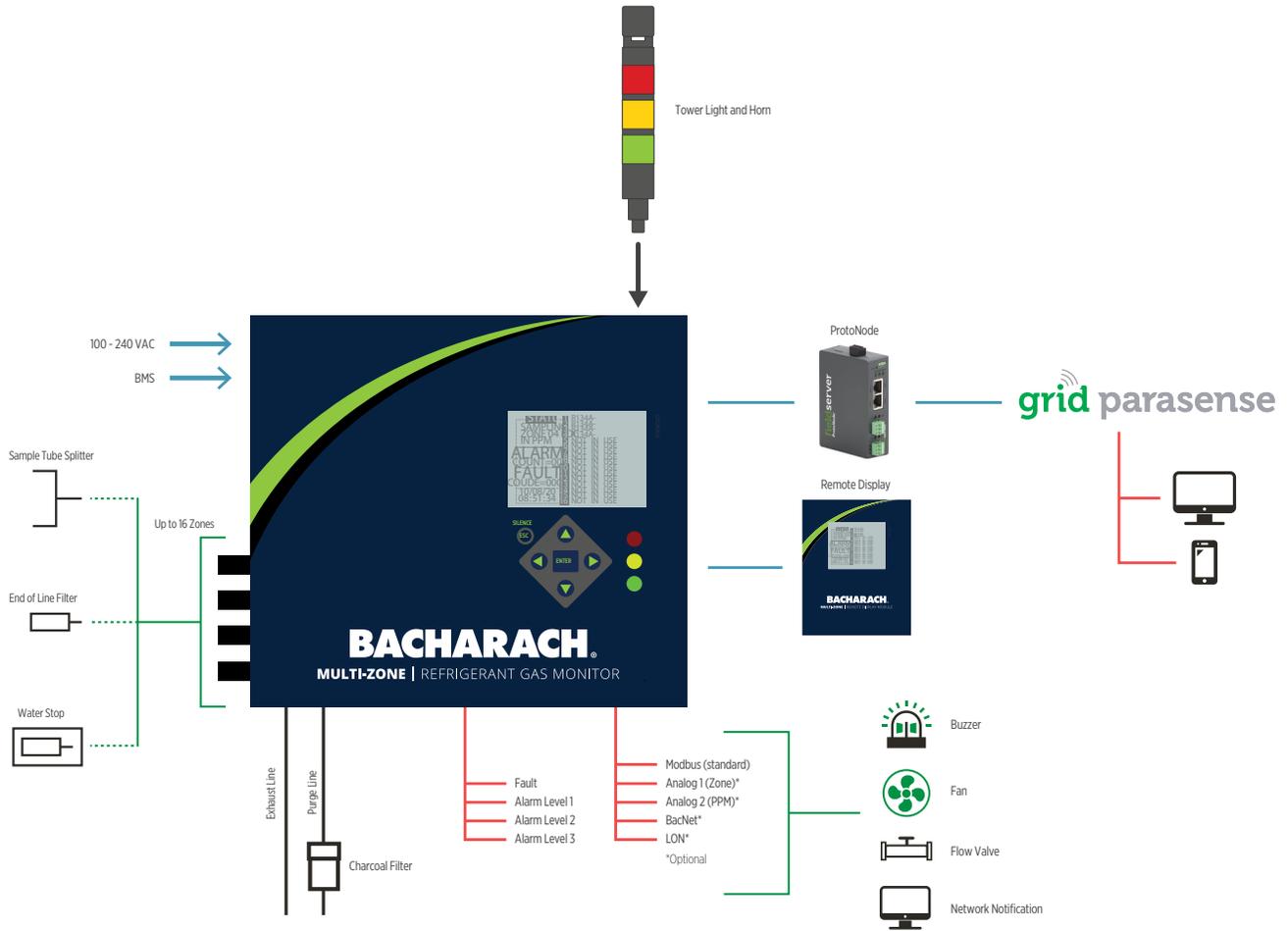


More Information:

Scan the QR code to learn more about the Multi-Zone and other Bacharach products.

SAFEGUARDING PEOPLE, PLACES & THE PLANET.

Multi-Zone Refrigerant Monitor Configuration



Multi-Zone Refrigerant Monitor Part Numbers

GAS	ZONES	PART NUMBER (STANDARD UNIT)
HALOGEN	4	H3015-5043
HALOGEN	8	H3015-5044
HALOGEN	12	H3015-5045
HALOGEN	16	H3015-5046
R-717 (AMMONIA, NH ₃)	4	H3015-5047
R-717 (AMMONIA, NH ₃)	8	H3015-5048
R-717 (AMMONIA, NH ₃)	12	H3015-5049
R-717 (AMMONIA, NH ₃)	16	H3015-5050
R-744 (CARBON DIOXIDE, CO ₂)	4	H3015-5356
R-744 (CARBON DIOXIDE, CO ₂)	8	H3015-5357
R-744 (CARBON DIOXIDE, CO ₂)	12	H3015-5358
R-744 (CARBON DIOXIDE, CO ₂)	16	H3015-5359