Precision Ethylene Gas Monitor For Process Safety

DESCRIPTION

Bacharach's Multi-Zone delivers superior process gas monitoring with a MDL of 10 ppm for Ethylene gas, a fast sampling frequency, and an NDIR sensor that is immune to changes in temperature and humidity. The large LCD display and LED status indicators provide a system-wide overview at a glance.

The Multi-Zone Ethylene gas monitor ensures the correct concentration of Ethylene gas is utilized to obtain the greatest yield in the ripening process. A variety of communication interfaces are available, including Modbus, BACnet and LonWorks, allowing easy integration into BMS/BAS systems and remote monitoring solutions.

FEATURES	BENEFITS
10 ppm Minimum Detectable Level	Ensures the correct concentration for maximum yield
Monitors up to 16 zones	Centralized monitoring for many ripening rooms
Infrared sensor technology	Accurate, precise measurement unaffected by other gases, temperature or humidity
High performance sampling pump	Cycle times as low as 5 seconds for monitoring all zones with greater frequency
Minimal maintenance and no calibration required	Low cost of ownership
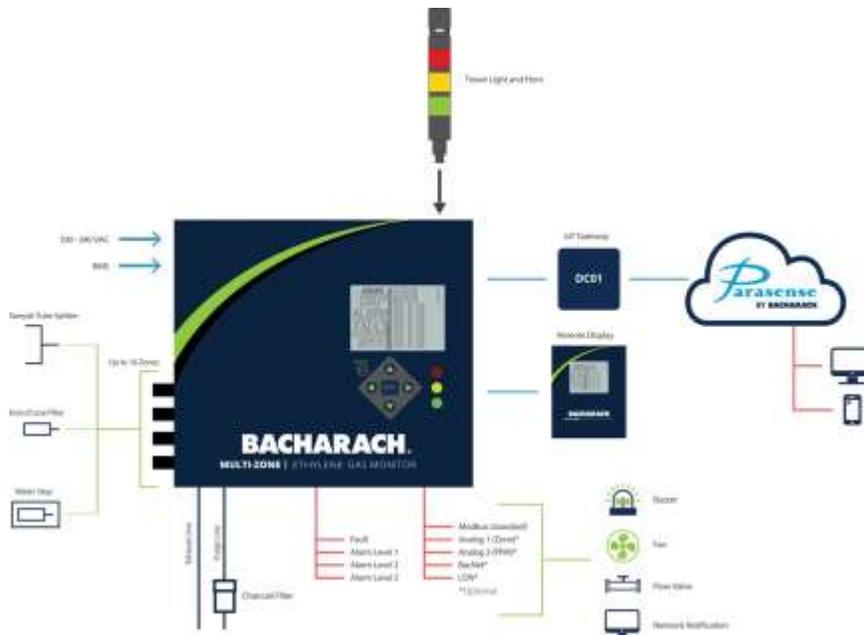
HOW TO CONTACT US:

US Customer Service: +1 724 334 5000
EU Customer Service: +353 1 284 6388
CAN Customer Service: +1 905 882 8985

FOR MORE INFO:

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

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SPECIFICATIONS	DESCRIPTION
Sensor	Proprietary non-dispersive infrared (NDIR) technology
Dimensions	12.23" x 13.7" x 4.96" (21.0642 cm x 34.7980 cm x 12.5984 cm)
Weight	15 lbs (6.8 kg)
User Interface	Front panel with 3 indicator lights: Green - power on, normal; Yellow - fault; Yellow Flashing - system fault; Red Flashing - point has exceeded alarm set
Measuring Range	10 to 10,000 ppm
Accuracy	±10PPM ±15% of reading 10-3000ppm
Temperature Drift	2ppm per °C between purge cycles
Communications	Standard: 1x RS-485, 1x RS-232C Optional: 2x 4-20mA, 1x BACnet, 1x LonWorks, 1x Johnson Metasys N2 Available Adapters: Lonworks to RS-485, RS-232C to RS-485, IoT Gateway
Alarms	4x SPDT alarm relays (3x ppm level, 1x system faults), 2A @ 250 VAC (inductive), 5A at 250 VAC (resistive) (Expandable up to 36 total alarm relays with the available Relay Module)
System Noise	Less than 40dB at 10 ft (3m)
Cycle Time	5 to 315 seconds per zone - depending on air line length and number of zones
Sampling Mode	Automatic or manual (hold)
Monitoring Distance	1,200 ft max for combined length of sample and exhaust tubing (each zone)
Power Safety Mode	Fully automatic system reset. All programmed parameters retained
Operating Temperature	32° to 122° F (0 to 50° C)
Ambient Humidity	5% to 90% RH non-condensing
Altitude Limit	6,562 ft (2,000 m)
Power	100 to 240 VAC, 50/60 Hz, 20 W
Approvals	UL 61010-1, CAN/CA 22.2 No. 61010-1; EN61010-1, EN61326, EN14624: 2020 (A1 Gases Only); CE Mark

PART NUMBER	DESCRIPTION
3015-6301	Ethylene-MZ, 4 Zones, 120-240 VAC, 50/60 Hz Input Power
3015-6302	Ethylene-MZ, 8 Zones, 120-240 VAC, 50/60 Hz Input Power
3015-6303	Ethylene-MZ, 12 Zones, 120-240 VAC, 50/60 Hz Input Power
3015-6304	Ethylene-MZ, 16 Zones, 120-240 VAC, 50/60 Hz Input Power
3015-5139	HGM-RD, Remote Display Module
3015-6265	HMZ-RM1, Relay Module, 16x SPDT alarm relays, 3A @ 24V
3015-5152	Dual 4-20 mA DC output PC board
3015-5705	BACnet Communications Module Package
3015-4230	N2 (JCI Metasys) Communications Package
3015-4231	LonWorks Communications Package
3015-6027	RS-485 Lon Socket Adapter Kit
3015-6028	RS-232C to RS-485 Adapter Kit
3015-6143	Tower Light with Audible Alarm Kit
3015-3235	Air Sample Tubing (250 ft. / 76 m roll)
3015-5404	Splitter Kit, 2-way, includes line end filters and brackets
3015-5405	Splitter Kit, 3-way, includes line end filters and brackets
0007-1655	Inline Water Stop
3015-3429	4 Zone Standard Accessory Kit, includes End of Line Filters, Charcoal FIlter with Mounting Bracket
3015-3449	8 Zone Standard Accessory Kit, includes End of Line Filters, Charcoal FIlter with Mounting Bracket
3015-3450	12 Zone Standard Accessory Kit, includes End of Line Filters, Charcoal FIlter with Mounting Bracket
3015-3451	16 Zone Standard Accessory Kit, includes End of Line Filters, Charcoal FIlter with Mounting Bracket