MGMS Sensing Module Gas Detection & Control System



Scalable system using remote Hardwired Sensors communicating with a central Control Panel as well as Remote Relay Modules to operate ventilation equipment & Remote Alarms.



Manufacturers Of Environmental Controls & Systems

FEATURES

- Gas Detection network capable of communicating real time with any smart device.
- Pre-calibrated sensing elements makes maintenance a non-issue
- Highly accurate and gas specific sensors
- "Plug-and-play".
- Full remote visibility of network through optional web based interface.
- Relative humidity and temperature compensated sensors
- Visual indication of sensor's operational status
- Fully compatible with Acme's MGMS-MC Control Panel

APPLICATIONS

- Energy savings through the intermittent operation of ventilation equipment in enclosed facilities.
- Suitable for garages, tunnels, warehouses and other enclosed commercial locations where a hazardous build-up of gases may occur.
- Ideal for retrofit of existing buildings to improve safety and conserve energy.
- Designed for multiple stage projects.

Sensor-Transmitter Specifications

GASES DETECTED: CO, Diesel Fumes (NO2), CO2,

O2, H2, H2S, Ammonia, etc. Methane, Propane & Butane Family of refrigerant gases

SENSOR TECHNOLOGY: Electrochemical, NDIR or

Catalytic Bead

SENSING METHOD: Diffusion type DETECTION RANGE: Varies by gas

ACCURACY: +/- 5ppm of reading

POWER REQUIREMENTS: 24 VAC

COMMUNICATION: RS485

RADIUS OF DETECTION (CO AND NO2): 50 ft. (10,000 square feet)

OPERATING TEMPERATURE: 32°F to 104°F (0°C to +40°C)*

HUMIDITY RANGE: 0-95% RH Non-condensing

EXPECTED SENSOR LIFETIME: Electrochemical CO: 7 years

Electrochemical other: 2 Years Catalytic Bead: 3 Years NDIR: 10

Years

ENCLOSURE: NEMA 3

CALIBRATION CLEARIFICATION: Yearly

Ordering Information	
MODEL NUMBER	GAS DETECTED
CP-MGMS-SM-N-X*	GASOLINE EXHAUST (CO)
DG-NO-MGMS-SM-N-X*	DIESEL FUMES (NO2)
CO2-MGMS-SM-N-X*	CARBON DIOXIDE (CO2)
MDG-NO-MGMS-SM-N-X*	GASOLINE/DIESEL (CO/NO2)
O2-MGMS-SM-N-X*	OXYGEN (O2)
H2-MGMS-SM-N-X*	HYDROGEN (H2)
H2S-MGMS-SM-N-X*	HYDROGEN SULFIDE (H2S)
NH3-MGMS-SM-N-X*	AMMONIA (NH3)
40-CH4-MGMS_SM-N-X*	METHANE (CH4)
40-C3H8-MGMS-SM-N-X*	PROPANE (C3H8)
40-C4H10-MGMS-SM-N-X*	BUTANE (C4H10)
REF**-MGMS-SM-N-X*	REFRIGERANT GASES

N = Number of sensors for each gas.

Add a "-BB" suffix at the end to indicate a battery back-up.

** REF = Refrigerant Gas desired.

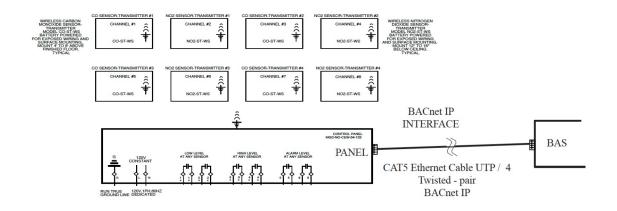
For combinations of gases or other gases available, please contact the factory $% \left\{ \left(1\right) \right\} =\left\{ \left(1\right) \right\} =\left\{$

for more information.

Other Acme Products

The MGMS-CM Sensing Module is fully compatible with the MGMS-CM Comtrol Modules

Typical Wiring Diagram





IN THE U.S.A. ACME ENGINEERING PROD. INC. Trimex Ind. Bldg., PMB #10 2330 State Route 11

Mooers, N.Y. 12958 Tel.: (888) 880-5323

Email: info@acmeprod.com www.acmeprod.com

The information provided by this bulletin is a general description of ACME UNITS. All specifications are subject to change without notice. Installation, maintenance and other instructions provided with the equipment shall be closely followed by installers, owners and users.

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5706 Royalmount Ave., Montreal,



^{*} Extended temperature ranges available

MGMS Control Module

Gas Detection & Control System



Scalable system using remote Hardwired Sensors communicating with a central Control Panel as well as Remote Relay Modules to operate ventilation equipment & Remote Alarms.



FEATURES

- Gas Detection network capable of communicating real time with any smart device.
- Highly customizable system that seamlessly manages a handful of sensors all the way to 256 units and 98 remote relay modules.
- BACnet capable with READ and WRITE features
- "Plug-and-play".
- Full remote visibility of network through optional web based interface.
- Relay outputs from the Control Panel or from Remote Wireless Relay Modules.
- Intuitive network/user interface makes fine tuning of network incredibly easy.
- Activation sequence that can be based on time, zone based readings (AVG, MIN and MAX)

APPLICATIONS

- Energy savings through the intermittent operation of ventilation equipment in enclosed facilities.
- Suitable for garages, tunnels, warehouses and other enclosed commercial locations where a hazardous build-up of gases may occur.
- Ideal for retrofit of existing buildings to improve safety and conserve energy.
- Designed for multiple stage projects.

Sensor-Transmitter Specifications

GASES DETECTED: CO, Diesel Fumes (NO2), CO2,

O2, H2, H2S, Ammonia, Methane, Propane & Butane Family of refrigerant gases. Please call us for complete list.

SENSOR TECHNOLOGY: Electrochemical, NDIR or

Catalytic Bead

SENSING METHOD: Diffusion type DETECTION RANGE: Varies by gas

ACCURACY: +/- 5ppm of reading

POWER REQUIREMENTS: 120 VAC

SENSOR POWER: 24 VAC from panel

COMMUNICATION: RS485

COMMUNICATION RANGE: 1500-2000 ft.

OPERATING TEMPERATURE: 32°F to 104°F (0°C to +40°C)*

HUMIDITY RANGE: 0-95% RH Non-condensing

EXPECTED SENSOR LIFETIME: Electrochemical CO: 7 years

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ENCLOSURE: NEMA 3
CALIBRATION CLEARIFICATION: Yearly

Ordering Information	
MODEL NUMBER	GAS DETECTED
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O2-MGMS-CM-N-X*	OXYGEN (O2)
H2-MGMS-CM-N-X*	HYDROGEN (H2)
H2S-MGMS-CM-N-X*	HYDROGEN SULFIDE (H2S)
NH3-MGMS-CM-N-X*	AMMONIA (NH3)
CH4-MGMS-CM-N-X*	METHANE (CH4)
C3H8-MGMS-CM-N-X*	PROPANE (C3H8)
C4H10-MGMS-CM-N-X*	BUTANE (C4H10)
REF**-MGMS-CM-N-X*	REFRIGERANT GASES

N = Number of sensors for each gas.

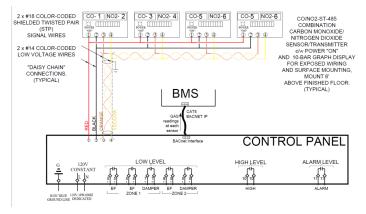
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Other Acme Products

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Module





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REPRESENTED BY:

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