

MULTI-GAS MONITORING SYSTEM





Features

- Supports up to 256 electrochemical, PID, NDIR and pellistor sensors
- Interchangeable smart calibrated sensing modules
- Plug-and-play smart sensors
- Auto-addressable and self-configurable sensors
- Modbus or BACnet communication protocol
- Intuitive web-based graphic user interface
- Visual and audible alarm with mute button
- Fully programmable alarm levels
- Fan override timers
- Sequential, time-based ventilation controls
- maintenance modes
- Unlimited datalogger

Applications

- Parking garages and loading docks
- Warehouses
- Fire stations
- Indoor sports complexes and arenas
- Car dealerships and maintenance facilities
- Airports, schools and hospitals
- Farms and greenhouses
- Battery and boiler rooms
- Chemical storage
- Indoor air quality
- Laboratory contaminant monitoring
- Welding shops
- HVAC-R mechanical rooms



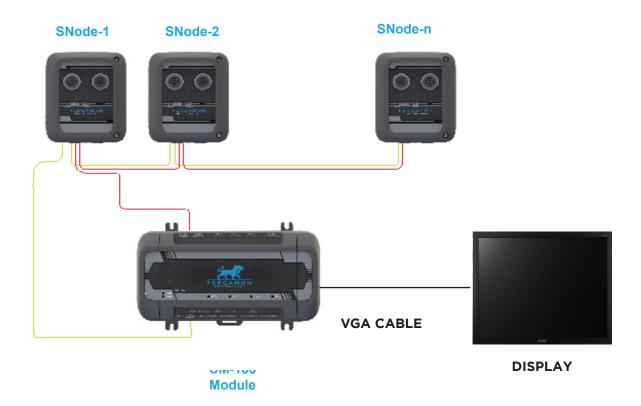


General Description

The CP-MGMS-S200 is a Multi-Gas Monitoring System designed to ensure occupant safety in enclosed areas, maintain indoor air quality at satisfactory levels and reduce energy costs through a demand-controlled ventilation system.

It is a scalable-architecture, low-maintenance, cost-effective system that uses remote hardwired sensors to communicate with a central control module, remote relay modules and remote analog modules and operate ventilation equipment and activate remote alarms.

The CP-MGMS-S200 controls gas levels suitable for different applications, notably combustible and toxic gases. The controller can monitor up to 256 sensors, including assorted sensor technologies such as electrochemical, infrared, pellistor and PID, or any combination thereof. The system contains three main modules: the "CM-100" control module, All in one touch screen PC, and "SNode" node module. For each module, competitive features offer an unmatched combination of accuracy, reliability, robustness and ease of use.





General Specifications

CP-MGMS-S200

Dimensions	24 in x 20 in x 8 in (610mm x 508mm x 203mm)	
Weight	63.5lb (29 kg)	
Power Supply	120 -240 VAC	
Power Consumption	1 A max.	GAS DETECTION AND
Specifications	 Aeration louvers on both sides. 17 in Screen. Alarm (Buzzer). Silencer push botton. Handle lock CM-100 controller module Processing data computer 3 Branches RS-45 Strob horn terminal blocks . Dry contact terminal blocks output. Analog terminal blocks input. 120 VAC terminal blocks input. 	GAS DEFECTION AND CONTROL PANEL PERSON NO N PERSON NO
Number of Supported SNode Modules	128 SNodes	
Number of Supported Sensors	256 sensors	
Relay Outputs	4 dry contact relays, 2 A @ 240 V each	
Alarm	Audible and visual alarm with mute switch (rated 85 dB @	② 2 ft.)

Controller Module (CM-100 Module)

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Dimensions	8.5 in. x 5.5 in. x 3 in. (216 mm x 140 mm x 76 mm)	
Weight	0.44 lb. (200 g)	
Power Supply	120 -240 VAC and +24 V DC/AC	
Power Consumption	280 mA max.	PERGAMON
Communication	 3 x RS485, Modbus RTU, Modbus TCP, BACnet MS/TP, BACnet IP 2 x Ethernet, HDMI, 2 x USB3 LoRa gateway 	ON TO THE PARTY OF
Data Loggers	15GB storage	

Gas Transmitter Sensor (SNode-2 Module)

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Dimensions	6 in. x 5 in. x 2 in. (152 mm x 127 mm x 51 mm)	
Weight	0.44 lb. (200 g)	
Power Supply	+24 V DC	
Power Consumption	18 mA max.	
Sensors	Plug & play dual sensorsTemperature & humidity sensors built in	PERGAMON
Supported Technology	Electrochemical, PID, NDIR & pellistor	
Communication	Shielded RS485 or LoRa wireless	8
Indication	power and status LEDs	



Optional:

Up to 12 Relay Modules (RM-8 Module)

Dimensions	8.5 in. x 5.5 in. x 3 in. (216 mm x 140 mm x 76 mm)		
Weight	0.44 lb. (200 g)	Sy *** ONDONE BROOMS SHOOMS SHOOMS	
Power Supply	+24 V DC/AC		
Power Consumption	190 mA max.	PERGAMON	
Outputs	8 dry contact relays, 8 A @ 240 V each	Fra	
Communication	Shielded RS485 or LoRa wireless	RT SZES- BADOMAK BADOMAK BADOMAK AMDOMAK	
Indication	power and status LEDs and 8 Relays LEDs	n — n	

Up to 12 Analog Modules (AM-8 Module)

Dimensions	8.5 in. x 5.5 in. x 3 in. (216 mm x 140 mm x 76 mm)	u u
Weight	0.44 lb. (200 g)	A CONT. ACRES ACRES ACRES
Power Supply	+24 V DC/AC	018 CH CH
Power Consumption	340 mA max.	PERGAMON
Outputs	8 current and voltage universal outputs Voltage: 0–2 V, 0–5 V, 0–10 V Current: 0–20 mA, 4–20 mA	OF ANY AND ENGLISHED AND
Communication	Shielded RS485 or LoRa wireless	n 🖰 n
Indication	power and status LEDs and 8 Analog LEDs	



Operating Conditions

Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
Operating Humidity	0 to 90% RH non-condensing
Total Current Consumption	2A max.

Web-based Software

Multi-platform web-based HMI live-monitoring software provides real-time alerts for hazardous conditions and alarms, allowing you to see what is happening and respond to incidents as they occur. With this software interface, you can be confident that operators are kept informed of site conditions even when they are miles away.

The web-based CP-MGMS-200 system with a strong communication backbone can continuously monitor and transmit sensor data and events, as well as look for issues and generate alerts when required. With immediate notification, operators can ensure that problems are quickly addressed.

Additionally, the software has the following features:

- · Automatic sensor plug-in/pull-out detection
- Alarm and gas concentration indications
- User management
- Sensing node, relay module and analog module configuration.
- Data logging
- maintenance modes
- Override start/stop, sequencer base timer relays.





Supported Gas Sensors

Gas		Sensor Technology	Range	Sensor Lifespan	Coverage Radius
Combustible		recimology	Kange	Ellespail	Radius
	CII	Catalistia la cad	0.000/151	7	20 ft (C)
Butane	C ₄ H ₁₀	Catalytic bead	0-60% LEL	3 years	20 ft. (6 m)
Hydrogen	H ₂	Catalytic bead	0-60% LEL	3 years	20 ft. (6 m)
Methane	CH ₄	Catalytic bead	0-60% LEL	3 years	20 ft. (6 m)
Propane	C ₃ H ₈	Catalytic bead	0-60% LEL	3 years	20 ft. (6 m)
Oxygen Deficiency					
Oxygen	O ₂	Electrochemical	0-25%	5 years	20 ft. (6 m)
Refrigerant					
Refrigerant	R-407C	Infrared	0-1,000 ppm	10 years	20 ft. (6 m)
Refrigerant	R-134A	Infrared	0-1,000 ppm	10 years	20 ft. (6 m)
Refrigerant	R-410A	Infrared	0-1,000 ppm	10 years	20 ft. (6 m)
Refrigerant	R-404A	Infrared	0-1,000 ppm	10 years	20 ft. (6 m)
Refrigerant	R-22	Infrared	0-1,000 ppm	10 years	20 ft. (6 m)
Toxic					
Ammonia	NH₃	Electrochemical	0-100 ppm	2 years	20 ft. (6 m)
Carbon dioxide	CO ₂	Infrared	0-5,000 ppm	10 years	50 ft. (15 m)
Carbon monoxide	СО	Electrochemical	0-200 ppm	7 years	50 ft. (15 m)
Hydrogen sulfide	H ₂ S	Electrochemical	0-20 ppm	3 years	20 ft. (6 m)
Nitrogen dioxide	NO ₂	Electrochemical	0-10 ppm	2 years	50 ft. (15 m)
Formaldehyde	CH ₂ O	Electrochemical	0-10 ppm	2 years	20 ft. (6 m)
Chlorine	CL ₂	Electrochemical	0-10 ppm	2 years	20 ft. (6 m)
Nitric oxide	NO	Electrochemical	0-250 ppm	2 years	20 ft. (6 m)
Sulfur dioxide	SO ₂	Electrochemical	0-2,000 ppm	2 years	20 ft. (6 m)

Other GASES and RANGES are available

