



Gas Transmitter MGS+350

Ideal for Industrial and Commercial Chiller Plants, Food Storage/Processing Facilities, Parking Garages, Schools and Hospitals, Maintenance Facilities, Grocery/Convenience Stores

Features & Benefits:

- Detects refrigerants (CFCs, HFCs, HCFCs), TVOCs, combustible gases/hydrocarbons, 02, NH₃, C0, H₂S, H₂, NO, NO₂, SO₂, Cl₂, and O₃
- Long-lasting infrared, semiconductor, catalytic bead and electrochemical sensor options for effective leak detection at the most affordable cost.
- Precalibrated replacement sensors for easy maintenance
- Integrated visual LED alarm
- Two onboard alarm relays (low and high)
- Multiple housing options available, including IP 66 and duct mount, for placement in diverse environments.
- Analog outputs: 4-20 mA, 0-5V, 0-10V, featuring 12/24 VAC / 12-30VDC operation



Continuous Leak Detection In Diverse Environments



Bacharach's MGS-350 Series Gas Transmitter is a feature-rich gas detection system with a wide range of sensor options to provide real-time monitoring of refrigerant, combustible, TVOC and toxic gases. It comes standard with analog and digital outputs including 4-20 mA, 0-5V, 0-10V and Serial Data, allowing them to connect directly to most BMS, SCADA or control systems. An onboard visual LED alarm indicator alerts area personnel when levels have exceeded the desired limit. The MGS-350 also features alarm relays (high and low) for connection to external audible/visual alarms or a BMS or BAS system.

MGS-350 Gas Transmitters, combined with the MGS Controller, can provide facility owners with a customized and complete low-cost gas-detection system. A variety of housing options are available (shown below), from standard to water resistant enclosures, which allow the MGS-350 units to be placed in many environments.



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MGS-350 Technical Specifications

Power Supply:	12-24 VAC/12-30 VDC				
Power Consumption (12V):	5W maximum				
Power Monitoring:	Green LED				
Visual Alarm:	Red LED				
Fault Monitoring:	Yes [Red LED (On) • Green LED (Off)]				
Analog Outputs:	4-20 mA, 0-5V, 0-10V, 1-5V, 2-10V				
Digital Outputs:	serial data				
Relays:	2 relays, ea. rated 1A @ 125 VAC (resistive load)				
Alarm Delay:	Selectable: 0, 1, 5 or 10 minutes				
IP Rating:	IP30 (standard) • IP66 (optional)				
Approvals:	CE • IEC/EN 61010-1 (pending) • UL/CSA 61010-1				
Dimensions & Weight - enclosures types:	Standard : 5.7" x 7.3" x 3.1" • 1.9 lb. 145 x 185 x 80mm • 850 g				
	IP66: 6.9" x 6.5" x 3.2" • 1.5 lb. 175 x 165 x 82mm • 660 g				
	IP66 w/Splash: 6.9" x 8.9" x 3.2" • 1.7 lb. 175 x 225 x 82mm • 756 g				
	IP66 / Remote: 6.9" x 6.1" x 3.2" • 2 lb. 175 x 155 x 82mm • 917 g				
	IP66 / EXd: 6.9" x 6.1" x 3.2" • 2.7 lb. 175 x 155 x 82mm • 1240 g				
	PRV/IP66: 6.9" x 6.1" x 3.2" • 2 lb. 175 x 155 x 82mm • 900 g				
	Airflow / Duct: 6.9" x 4.9" x 3.2" • 1.4 lb. 175 x 125 x 82mm • 643 g				
	EXd 5.1" x 6.9" x 3.5" • 8.8 lb. (ATEX only): 130 x 175 x 90mm • 4003 g				

MGS-350 Common Configurations

Infrared Sensor - Common Configurations						
6500-1091	CO ₂ IR: 0 - 10,000 ppm • Standard Housing					
6500-8091 6500-2051	CU ₂ IK: U - 10,000 ppm • Duct Mount					
Compustibles IN: U - 100% LEL • IPob Housing						
Electrochemical Sensor - Common Configurations						
6500-1018	CO: Parking Garage • Standard Housing					
6500-2018	CU: Parking Garage • IP66 Housing					
6500-3031 6500-4020	NH ₃ : U - 500 ppm • IP66 w/Splash Guard					
6500 2001	CO: 0 1 000 ppm • IP66 Housing					
6500-2001	NO ₂ : Parking Garage • Standard Housing					
6500-2019	NO ₂ : Parking Garage • IP66 Housing					
6500-2015	O_3 : 0-2 ppm • IP66 Housing					
Semiconductor Sensor - Common Configurations						
6500-7118	NH3: 0 - 10,000 ppm • IP66 w/PRV Sensor					
6500-2101	R134a: 0 - 1,000 ppm • IP66					
6500-1105	R407a: 0 - 1,000 ppm • Standard Housing					
6500-4101	R134a: 0 - 1,000 ppm • IP66 w/Remote Sensor					
6500-2120	Ethylene: 0 - 2,000 ppm • IP66					
6500-2121	VOC: 0 - 2,000 ppm • IP66					
6500-9107	R410a: 0 - 1,000 ppm • Remote Sensor with Faceplate					
6500-4119	H ₂ : 0 - 2,000 ppm • IP66 w/Remote Sensor					
Catalytic Bead Sensor - Common Configurations						
6500-7020	NH ₃ : 0 - 30,000 ppm • IP66 w/PRV Sensor					
6500-2021	H ₂ : 0 - 20,000 ppm • IP66					
6500-6022	CH ₄ : 0 - 100% LEL • Exd Remote					
6500-7023	LPG/Propane: 0 - 100% LEL • IP66 w/Remote Sensor					
MGS Controller - Common Configurations						
6700-0300	MGS Controller • 1 Sensor / 1 Alarm • 110VAC					
6700-0370	MGS Controller • 6 Sensors / 2 Alarm • 110VAC					
6700-0301	MGS Controller • 1 Sensor / 1 Alarm • 220VAC					
6700-0371	MGS Controller • 6 Sensors / 2 Alarm • 220VAC					
6700-0352	MGS Controller • 4 Sensors / 2 Alarm • 12VDC					

Please contact your Bacharach sales representative for other configurations based on your unique specifications.

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ISO 9001

MGS-350 Sensor Information									
	Semiconductor (SC)	Electrochemic	al (EC)	Infrared (NDIR)	Catalytic Bead (CAT)				
Temperature Range:	-4° F to 122° F (Std.) -20° C to 50° C (Std.) -40° F to 122° F (IP66) -40° C to 50° C (IP66)	-4° F to 104° F -20° C to 40° (-40° F to 104° -40° C to 40° (C (Std.) C (Std.) F (IP66) C (IP66)	-4° F to 122° F (Std.) -20° C to 50° C (Std.) -40° F to 122° F (IP66) -40° C to 50° C (IP66)	-4° F to 122° F (Std.) -20° C to 50° C (Std.) -40° F to 122° F (IP66) -40° C to 50° C (IP66)				
Humidity (non-condensing):	0 - 95%	0 - 95%		0 - 95%	0 - 95%				
Sensor Life:	5 - 8 years (typical)	2 - 5 years (t	ypical)	5 years (typical)	5 years (typical)				
Time to Alarm (T50):	20 seconds (typical)	80 seconds	typical)	45 seconds (typical)	30 seconds (typical)				
Time to Alarm (T90):	50 seconds (typical)	220 seconds	(typical)	90 seconds (typical)	45 seconds (typical)				
Recovery Time:	900 seconds (typical)	600 seconds	(typical)	210 seconds (typical)	600 seconds (typical)				
Gases Detected	Type (Sym	001)	Intrared	Sensor - Measuring I	Kange(s) Available				
Cardon Dioxide:	CO ₂ 0 - 5,000 ppm • 0 - 10,000 ppm • 0 - 20,000 ppm 0 - 30,000 ppm (0-3% vol.) • 0 - 50,000 ppm (0-5% vol.) 0 - 100,000 ppm (0-10% vol.)								
Hydrocarbons:	Methane, Butane, Propane, etc. 0 - 100% LEL, 0 - 100% vol.								
Gases Detected	Type (Sym	bol)	Semicor	nductor Sensor - Meas	suring Range(s) Available				
Refrigerants: HFCs, CFCs, HCFCs	R134a, R404a, R407a, R410a, R22, R507a, etc.		0 - 1,0 0 - 10,	00 ppm • 0 - 3,000 ppi 000 ppm	m • 0 - 5,000 ppm •				
	R600a, R290		0 - 2,0	00 ppm					
Ammonia:	NH ₃		0-1,00 0-10,0	0 ppm • 0-5,000 ppm 00 ppm	I				
Hydrogen:	H ₂		0 - 2,0	00 ppm					
Hydrocarbons:	Methane (natural gas), Propane, Butane, LPG, Ethylene, Isobutane		0 - 2,0	00 ppm					
VOCs:	Acetone, Ethanol, Methanol, Trichloro-ethylene and more		0 - 2,0	00 ppm					
Gases Detected	Type (Sym	bol)	Electroc	hemical Sensor - Mea	suring Range(s) Available				
Various including:	Ammonia (NH ₃)		0 - 100	ppm • 0 - 500 ppm • 0 -	1,000 ppm • 0 - 5,000 ppm				
	Carbon Monoxide (CO)	Industrial	0 - 1,000 ppm						
	*Chlorine (Cl ₂)		0 - 20 ppm						
	Ethylene (C_2H_4)		0 - 10 ppm • 0 - 1,000 ppm						
	Etnylene Uxide (L ₂ H ₄ U)		0 - 20 ppm						
	"Fluorine (F ₂)		0-10	0 1 000 ppm					
	Hydrogen Chloride (HCI)		0 - 1,000 ppm						
	Hydrogen Cvanide (HCN)		0 - 50 ppm						
	Hydrogen Sulfide (H ₂ S)		0 - 200 ppm						
	Nitric Oxide (NO)		0 - 1,000 ppm						
	Nitrogen Dioxide (NO ₂)		0 - 10 ppm						
	Oxygen (O ₂)		0 - 309	% vol.					
	*Ozone (O ₃₎		0 - 2 p	pm					
	Phosphine (PH ₃₎	sphine (PH ₃₎		5 ppm					
	Sulfur Dioxide (SO ₂)		0 - 100) ppm					
Orace Data to I	* Available in standard h	ousing only	0-4-1-4-	Dead Can Mar					
Gases Detected	Type (Sym	001)	Catalytic	c Bead Sensor - Measi	iring Range(s) Available				
Various including:	Ammonia (NH ₃)		0 - 30,000 ppm						
	Hydrogen (H ₂)	ronano	0 - 20,						
	Butane, all combustible	e gases	0 - 100	J/0 LLL					

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