

# PRODUCT BULLETIN



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## MGS-150 Gas Transmitter

The new MGS-150 Gas Transmitter from Bacharach is the leader in performance and flexibility at a very economical price. The MGS-150 family is a cost-effective solution for detecting a variety of refrigerants as well as toxic, combustible and VOC gas leaks. On-board alarm LEDs indicate which sensor is in an alarm state while the audible alarm alerts personnel in the area that levels have exceeded the desired limit.

The MGS-150 utilizes a variety of sensing technologies including a semiconductor sensor for the detection of ammonia, refrigerants, TVOCs, and combustible gases, electrochemical sensors for the detection of ammonia and other toxic gases, and an infrared sensor for detecting carbon dioxide and combustible gases.



### Gases Detected:

- Refrigerant Gases (CFC, HCFs, HCFC), 0-1000 ppm
- Carbon Dioxide (CO<sub>2</sub>), 0-5000, 0-10,000, 0-20,000 ppm, 0-5% vol
- Ammonia (NH<sub>3</sub>), 0-100, 0-500, 0-1000, 0-5000 ppm
- TVOCs, 0-2000 ppm
- Combustibles/Hydrocarbons 0-100% LEL, 0-2000 ppm
- Carbon Monoxide (CO), 0-100, 0-500, 0-1000 ppm
- Hydrogen Sulfide (H<sub>2</sub>S), 0-200 ppm
- Oxygen (O<sub>2</sub>), 0-30% vol
- Nitric Oxide (NO), 0-100, 0-1000 ppm
- Nitric Dioxide (NO<sub>2</sub>), 0-10 ppm
- Sulfur Dioxide (SO<sub>2</sub>), 0-100 ppm
- Chlorine (Cl<sub>2</sub>), 0-20 ppm
- Ozone (O<sub>3</sub>), 0-2 ppm
- Hydrogen (H<sub>2</sub>), 0-1000 ppm

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**Product Features:**

- User selectable analog output: 4-20 mA, 0-5V, 1-5V, 0-10V, 2-10V
- On-board alarm relay
- 12/24 VAC/VDC operation
- On-board alarm LED indicators and audible alarm
- Optional housings including IP66 and specialized pressure relief vent
- Duct mount kit for ventilation monitoring
- Fast responding sensors
- User selectable alarm delay

**Target Applications:**

- Industrial chiller plants
- Commercial chiller plants
- Grocery and convenient stores
- Wineries
- Food/beverage processing and storage
- Maintenance facilities
- Schools and hospitals
- Parking garages
- Bus garages
- Boiler rooms

The MGS-150 transmitters combined with the MGS Controller allow facility owners to have a complete gas detection system. The MGS controller is available in 1, 2, 4, and 6 channel versions with either one (1) or two (2) alarm levels. Each controller has alarm LED's to indicate which channel is in alarm, and onboard relays can be used to activate fans, external alarms, or connect to a BMS system.

**MGS Controller**

6700-03BC

						<i>Sensors</i>	<i>Voltage</i>	<i>\$USD Price</i>
6	7	0	0	0	3	B	C	
						0 = 1 sensor, 1 alarm	0 = 110 VAC	\$245.00
						1 = 1 sensor, 2 alarm	1 = 220 VAC	\$370.00
						2 = 2 sensor, 1 alarm	2 = 12 VDC	\$265.00
						3 = 2 sensor, 2 alarm	3 = 100 VAC	\$410.00
						4 = 4 sensors, 1 alarm		\$500.00
						5 = 4 sensors, 2 alarm		\$625.00
						6 = 6 sensors, 1 alarm		\$570.00
						7 = 6 sensors, 2 alarm		\$720.00
						8 = Special Order		

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**MGS-150 Transmitters**  
630A-BCDE

6	3	0	Housing A & B	USD Price	Sensor C, D & E	\$USD Price
			00 = N/A	N/A	000 = N/A	Consult factory
			01 = Standard Housing	No charge	001 = CO Industrial, 0-1,000 ppm	\$565.00
			02 = IP 66	\$100.00	002 = H2S	\$565.00
			03 = IP 66 w/splash guard	\$120.00	003 = O2 low alarm	\$425.00
			04 = IP 66 w/remote sensor	\$125.00	004 = NO2 Industrial, 0-10 ppm	\$565.00
			05 = Exd - European Version	\$505.00	006 = SO2	\$565.00
			06 = Exd remote + IP66 (EU)	\$290.00	007 = O2 high alarm	\$425.00
			07 = PRV remote w/IP 66	\$95.00	008 = Cl2	\$565.00
			08 = Airflow / duct mount - IP 66	\$85.00	011 = H2	\$615.00
			09 = Remote sensor w/faceplate	\$75.00	012 = Ethylene 0 - 20 ppm	\$665.00
			10 = Special	Consult factory	013 = Ethylene, 0-1,000 ppm	\$665.00
					014 = NO	\$565.00
					015 = O3 (ozone)	\$565.00
					016 = HCl	\$615.00
					017 = Ethylene Oxide	\$665.00
					018 = CO Parking	\$320.00
					019 = NO2 parking	\$320.00
					030 = NH3, EC, 0-100 ppm	\$615.00
					031 = NH3, EC, 0-500 ppm	\$615.00
					032 = NH3, EC, 0-1,000 ppm	\$615.00
					033 = NH3, EC, 0-5,000 ppm	\$615.00
					051 = IR, combustibles	\$770.00
					090 = CO2 IR, 0-5,000 ppm	\$770.00
					091 = CO2 IR, 0-10,000 ppm	\$770.00
					092 = CO2 IR, 0-20,000 ppm	\$770.00
					093 = CO2 IR, 0-30,000 ppm	\$770.00
					094 = CO2 IR, 0-50,000 ppm	\$770.00
					095 = CO2 IR, 0-100,000 ppm	\$770.00
					100 = SC, R134a, 0-100 ppm	\$290.00
					101 = SC, R134a, 0-1,000 ppm	\$290.00
					102 = SC, R404a, 0-100 ppm	\$290.00
					103 = SC, R404a, 0-1,000ppm	\$290.00
					104 = SC, R407a, 0-100 ppm	\$290.00
					105 = SC, R407a, 0-1,000ppm	\$290.00
					106 = SC, R410a, 0-100ppm	\$290.00
					107 = SC, R410a, 0-1,000ppm	\$290.00
					108 = SC, R22, 0-100 ppm	\$290.00
					109 = SC, R22, 0-1,000 ppm	\$290.00
					110 = SC, R507a, 0-100 ppm	\$290.00
					111 = SC, R507a, 0-1,000 ppm	\$290.00
					112 = SC, R600a, 0-2,000 ppm	\$290.00
					113 = SC, R290, 0-2,000 ppm	\$290.00
					114 = SC, CH4, 0-2,000 ppm	\$290.00
					115 = SC, NH3, 0-100 ppm	\$290.00
					116 = SC, NH3, 0-1,000 ppm	\$290.00
					117 = SC, NH3, 0-5,000 ppm	\$290.00
					118 = SC, NH3, 0-10,000 ppm	\$290.00
					119 = SC, H2, 0-2,000 ppm	\$290.00
					120 = SC, Ethylene, 0-2000 ppm	\$290.00
					121 = SC, VOC, 0-2,000 ppm	\$290.00

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