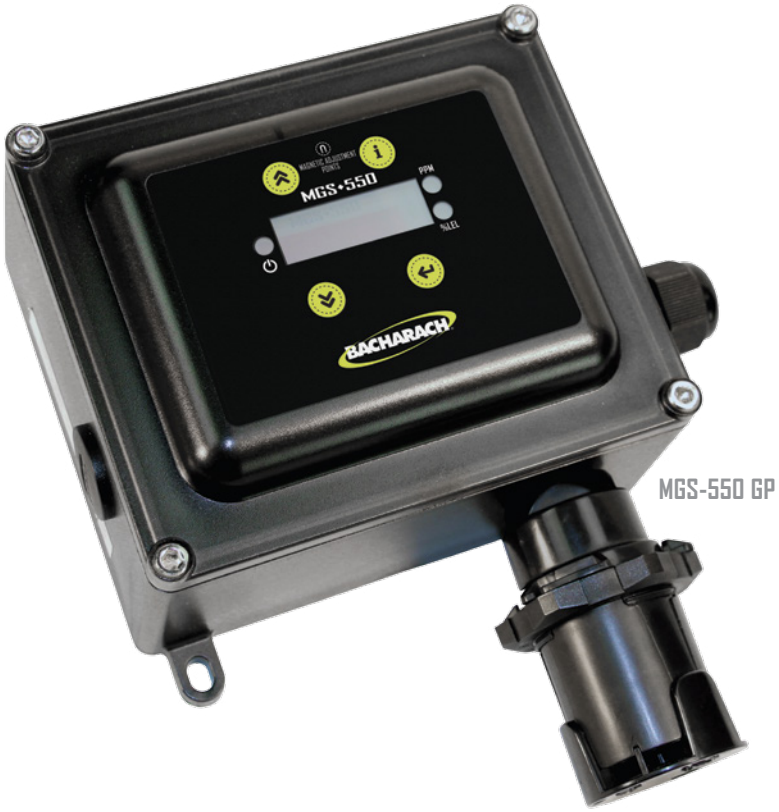
MGS-550
Gas Transmitter

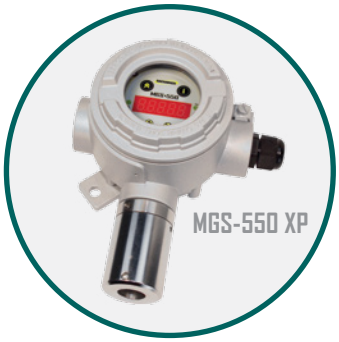
BACHARACH®
The Measurable Difference

FIXED GAS MONITOR



MGS-550 GP

- Flexible One or Two-Sensor Capability
- Remote Sensor Options for Direct Monitoring in Any Environment
- Analog and Modbus Interface
- Three User-Assignable Relays for Enhanced Safety
- Magnetic Wand Enables Easy, Non-Intrusive Adjustments/Calibration
- 3 Status Indicators and 5-Digit Numeric LED Display


MGS-550 XP

MAKING THE DIFFERENCE IN GAS DETECTORS

With more than a century of gas detection design expertise, Bacharach offers its new MGS-550, a flexible-platform instrument that is easily customized for a wide variety of challenging applications. Capable of utilizing electrochemical, semiconductor, catalytic bead and infrared sensor technologies, the MGS-550 is user configurable to detect an extensive range of refrigerants, combustible and toxic gases, as well as VOCs for industrial, commercial and institutional environments. Enclosure options include a rugged, aluminum explosion-proof housing or a dust/waterproof IP66 ABS for durable performance in any location.

The MGS-550 can be connected to any central BMS control system (via Modbus connection) or, with its three onboard user-assignable relays, can easily function as a stand-alone unit without the need to wire alarm devices back to a central system. Providing the ultimate in flexibility, the instrument can be upgraded at any time from a one-sensor unit to a two-sensor system by simply installing another sensor. Both analog interfaces can be assigned as either redundant or specific for each of the sensors. The simple, single level menu interface throughout the MGS-550 platform significantly reduces the amount of training required for maintenance and installation.

MGS-550 TECHNICAL SPECIFICATIONS

TYPE	Gas detector using Semiconductor, Electrochemical, Infrared or Catalytic Bead sensor, for one or two sensor configuration.		
GASES AND RANGES	O_2	30 Vol%	
	CO	1,000 ppm	
	H_2S	100 ppm	
	NH_3*	100 / 1,000 / 5,000 / 10,000 ppm / 100 %LEL	
	CO_2	5,000 / 10,000 / 20 ,000 / 30,000 / 40,000 / 50,000 ppm	
	Refrigerants	1,000 / 10,000 ppm	
	Combustible Gases	5,000 ppm / 100 %LEL	
	H_2	10,000 ppm	
	C_2H_4	2,000 ppm	
	VOC	1,000 ppm	
	Cl_2**	10 ppm	
	F_2**	1 ppm	
	HCl**	10 ppm	
	SO_2	10 ppm	
	NO_2	20 ppm	
	HCN	30 ppm	
	O_3**	1 ppm	
REPEATABILITY	± 5% of applied gas concentration		
DISPLAY	Red 5-digit, 7-segment LED and green status LEDs		
OUTPUT	Analog	4 to 20 mA, 0 to 5 V, 0 to 10 V, 1 to 5 V, 2 to 10 V	
	Digital	Modbus RTU via RS 485	
POWER SUPPLY	19.5 to 28.5 VDC or 24 VAC ± 20%; 3- or 4-wire		
RELAY	Three relays, SPDT, user assignable		
	Rating 2 A @ 30 VDC NO, 0.5 A @ 125 VDC, 0.25 A @ 250 VAC, 30 W, resistive load		
AMBIENT CONDITIONS	Temperature	Semiconductor	-40 to 130 °F / -40 to +55 °C
		Electrochemical	-5 to 120 °F / -20 to +50 °C*
		Infrared	-40 to 130 °F / -40 to +55 °C
		Catalytic Bead	-40 to 130 °F / -40 to +55 °C
	Humidity	5 to 90 %RH, non condensing	
	Pressure	23.6 to 32.5 inch Hg / 800 to 1,100 mbar	
ENCLOSURE	General purpose	ABS IP66 with four M20 x 1.5 cable glands	
	Explosion-proof	Aluminum with four M20 x 1.5 hubs	
SIZE (WxHxD) APPROX.	General purpose	8.3" x 8.9" x 3.4" / 210 x 225 x 85 mm	
	Explosion-proof	4.9" x 7.5" x 3.5" / 125 x 190 x 90 mm	
WEIGHT APPROX.	GP: 2 lbs / 1 kg; XP: 3.5 lbs / 1.6 kg		
APPROVALS	CE, UL / CSA / IEC EN 61010-1		

Ammonia available as low temperature version -40 °F / 40 °C (not for 5,000 ppm Elecrochemical sensor)
****Not IP66 rated; not available in XP enclosure***

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