

MGS-550

Gas Transmitter



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

FIXED GAS MONITOR

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. The MGS-550 is user-configurable and capable of utilizing electrochemical, semiconductor, catalytic bead and infrared sensors to detect an extensive range of refrigerants, combustible and toxic gases, as well as VOCs in industrial, commercial and institutional environments. Enclosure options include a rugged, explosion-proof aluminum 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 ₂ S	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 ₂ H 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
ENCLOSURE	Pressure	23.6 to 32.5 inch Hg / 800 to 1,100 mbar
	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 Electrochemical sensor)

**Not IP66 rated; not available in XP enclosure

www.MyBacharach.com

CORPORATE HEADQUARTERS

621 Hunt Valley Circle E Help@MyBacharach.com
New Kensington, PA P +724-334-5000
15068 USA F +724-334-5001

CANADA

20 Amber St Unit #7 E Support@BachCan.ca
Markham, Ontario P +905-470-8985
L3R 5P4 F +905-470-8963

IRELAND | EUROPE

114a Georges St Lower E Ask@Murco.ie
Dun Laoghaire, P +353 1 284 6388
Co. Dublin, Ireland F +353 1 284 6389

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