

MGS-550

Gas Transmitter



- ▶ 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



FIXED GAS MONITOR

MAKING THE DIFFERENCE IN GAS DETECTORS

With more than a century of gas detection design expertise, Bacharach and Murco offer the 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.

MBS-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	
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 Electrochemical sensor)

**Not IP66 rated; not available in XP enclosure

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April 2015 - REV. 1

