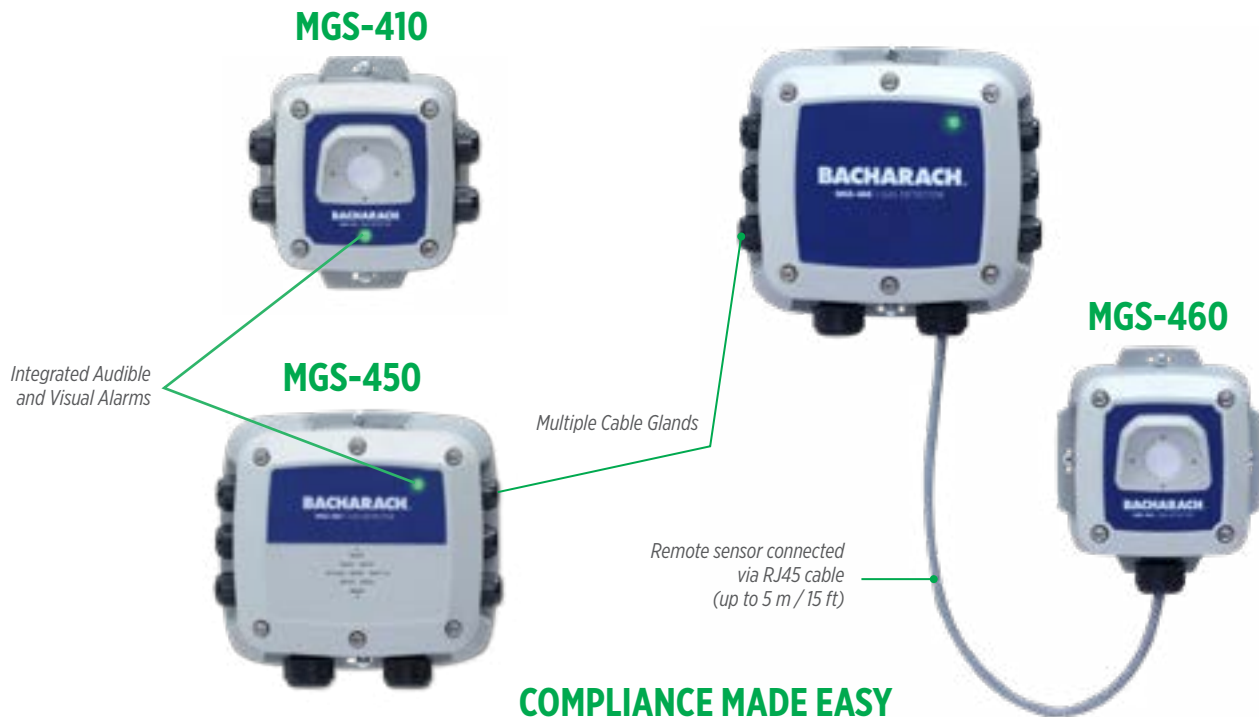


MGS-400 Series Gas Detectors

Safety Gas Detection for Refrigerants, Toxic, & Combustible Gases



Unique plug-in field replaceable pre-calibrated sensor for low cost of ownership

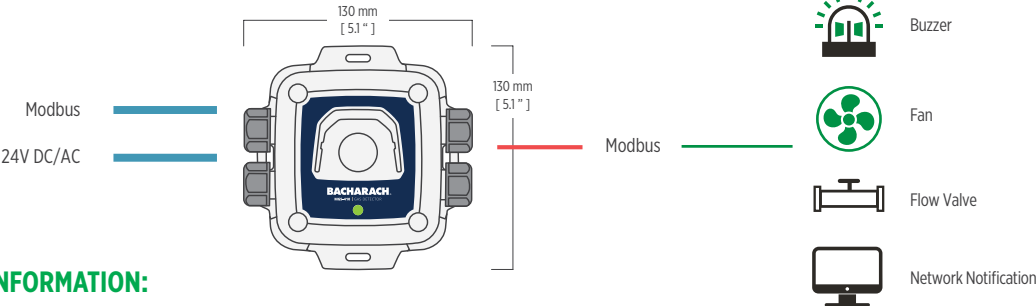
Specifications

	MGS-410	MGS-450	MGS-460
Sensor Channels	1	1	1
Enclosure Ratings	IP66	IP41, IP66	IP66
Analog Communications	-	4 to 20 mA, 0 to 5V, 0 to 10V, 1 to 5V, 2 to 10V *	4 to 20 mA, 0 to 5V, 0 to 10V, 1 to 5V, 2 to 10V *
Digital Communications	Modbus RTU via RS 485	Modbus RTU via RS 485	Modbus RTU via RS 485
Configurable Relays	-	3	3
Buzzer Volume	80 dB @ 10 cm	80 dB @ 10 cm	80 dB @ 10 cm
Product Dimensions (L×W×H)	5.1" × 5.1" × 2.7" (130 × 130 × 68 mm)	IP41: 6.5" × 6.5" × 3.0" (165 × 165 × 77 mm) IP66: 6.5" × 6.5" × 3.4" (165 × 165 × 87 mm)	Transmitter: 6.5" × 6.5" × 3.4" (165 × 165 × 87 mm) Remote Sensor: 4.5" × 5.4" × 2.7" (115 × 136 × 68 mm)
Product Weight	9.2 oz (260 g)	1lb, 1oz (480 g)	1lb, 11.7oz (758 g)
Product Design Standard Conformities	EN 50270, EN 14624*	EN 50270, EN 14624*	EN 50270, EN 14624*
Supports/Enables Compliance with Industry Codes & Regulations	ASHRAE 15, CSA B52.2, EN 378*, F-Gas Regulation	ASHRAE 15, CSA B52.2, EN 378*, F-Gas Regulation	ASHRAE 15, CSA B52.2, EN 378*, F-Gas Regulation
Product Performance Approvals	EMC Directives, CE Mark, UL / CSA / EN 61010-1	EMC Directives, CE Mark, UL / CSA / EN 61010-1	EMC Directives, CE Mark, UL / CSA / EN 61010-1
Warranty	1 Year	1 Year	1 Year
Power	24V AC/DC 410 2W, 450 and 460 4W	24V AC/DC 410 2W, 450 and 460 4W	24V AC/DC 410 2W, 450 and 460 4W
Minimum Detection Limit	Sensor dependent; 50ppm refrigerants	Sensor dependent; 50ppm refrigerants	Sensor dependent; 50ppm refrigerants

*selectable
~ for A1 Refrigerants

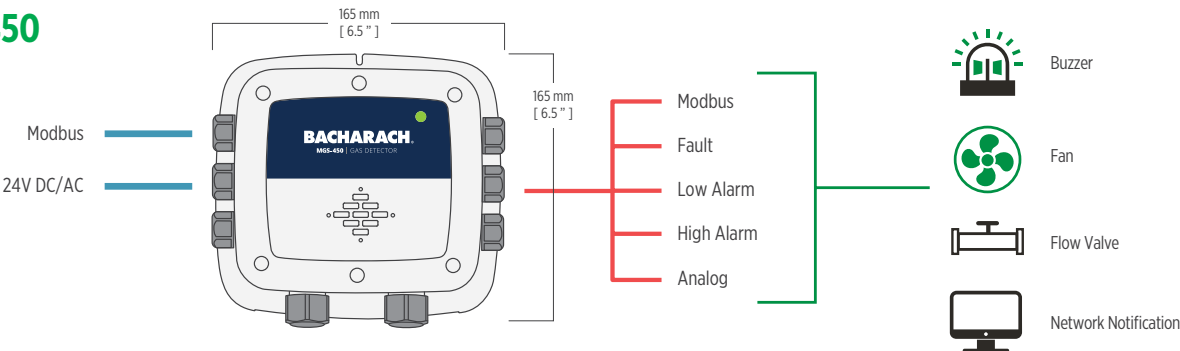
SAFEGUARDING PEOPLE, PLACES & THE PLANET.

MGS-410



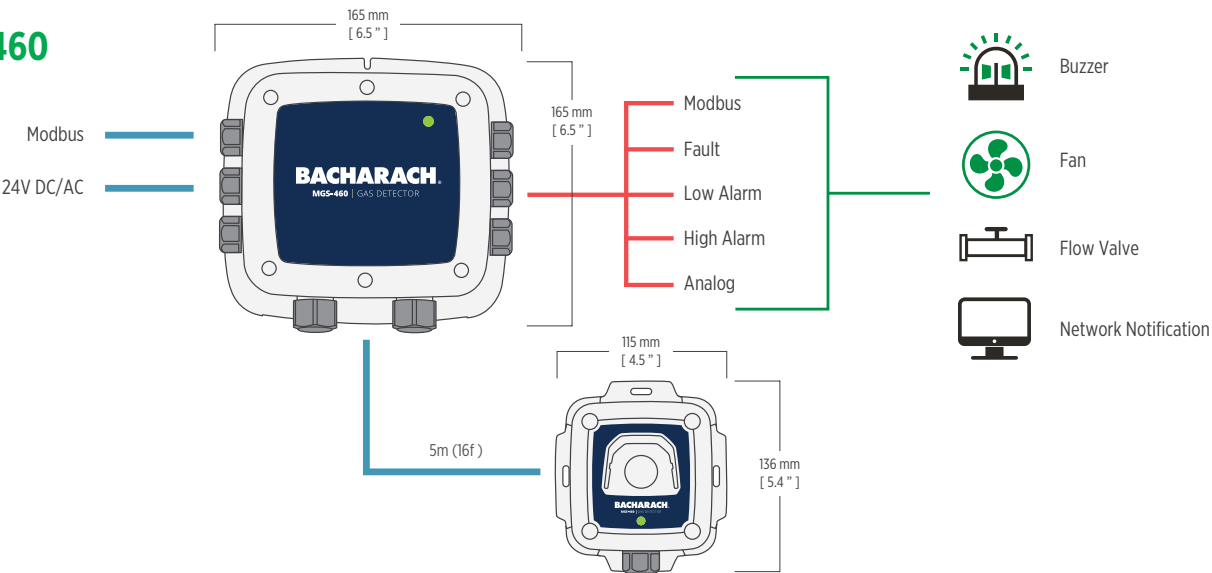
MORE INFORMATION:
Scan the QR code to learn about the MGS-410 and other MSA Bacharach products.

MGS-450



MORE INFORMATION:
Scan the QR code to learn about the MGS-450 and other MSA Bacharach products.

MGS-460



MORE INFORMATION:
Scan the QR code to learn about the MGS-460 and other MSA Bacharach products.

MGS-400 Series Gas Detector Part Numbers

GAS	TYPE	MDL	ALARM RANGE	MGS-410	MGS-450 (IP41)	MGS-450 (IP66)	MGS-460	PRE-CALIBRATED REPLACEMENT SENSORS
R-600 (BUTANE)	IR	700 ppm (5% LEL)	15-100% LEL	H6302-0052	H6302-1052	H6302-2052	H6302-4052	H6302-9052
R-50 (METHANE, CH ₄)	IR	2200 ppm (5% LEL)	15-100% LEL	H6302-0053	H6302-1053	H6302-2053	H6302-4053	H6302-9053
CARBON MONOXIDE / CO	EC	10 ppm	20-500 ppm	H6302-0040	H6302-1040	H6302-2040	H6302-4040	H6302-9040
R-744 (CARBON DIOXIDE, CO ₂)	IR	200 ppm	750-5000 ppm	H6302-0090	H6302-1090	H6302-2090	H6302-4090	H6302-9090
R-744 (CARBON DIOXIDE, CO ₂)	IR	250 ppm	1500-10000 ppm	H6302-0091	H6302-1091	H6302-2091	H6302-4091	H6302-9091
R-744 (CARBON DIOXIDE, CO ₂)	IR	300 ppm	3000-20000 ppm	H6302-0092	H6302-1092	H6302-2092	H6302-4092	H6302-9092
R-744 (CARBON DIOXIDE, CO ₂)	IR	450 ppm	4500-30000 ppm	H6302-0093	H6302-1093	H6302-2093	H6302-4093	H6302-9093
R-744 (CARBON DIOXIDE, CO ₂)	IR	750 ppm	7500-50000 ppm	H6302-0095	H6302-1095	H6302-2095	H6302-4095	H6302-9095
R-717 AMMONIA (-40° F/C)	EC	5 ppm	15-100 ppm	H6302-0026	H6302-1026	H6302-2026	H6302-4026	H6302-9026
R-717 AMMONIA (-40° F/C)	EC	50 ppm	150-1000 ppm	H6302-0028	H6302-1028	H6302-2028	H6302-4028	H6302-9028
R717 AMMONIA (-4°F/-20°C)	EC	250 ppm	750-5000 ppm	H6302-0037	H6302-1037	H6302-2037	H6302-4037	H6302-9037
R717 AMMONIA (-40° F/C)	EC	5 ppm	10-300 ppm	H6302-0029	H6302-1029	H6302-2029	H6302-4029	H6302-9029
R-717 (AMMONIA, NH ₃)	CAT	7500 ppm (5% LEL)	15-100% LEL	H6302-0070	H6302-1070	H6302-2070	H6302-4070	H6302-9070
NITROGEN DIOXIDE, NO ₂	EC	1 ppm	3-20 ppm	H6302-0041	H6302-1041	H6302-2041	H6302-4041	H6302-9041
OXYGEN, O ₂ (-4°F/-20°C)	EC	3000 ppm (3% Vol)	4.5-30% Vol	H6302-0003	H6302-1003	H6302-2003	H6302-4003	H6302-9003
R-1234YF	SC	50 ppm	150-1000 ppm	H6302-0161	H6302-1161	H6302-2161	H6302-4161	H6302-9161
R-1234ZE	SC	50 ppm	150-1000 ppm	H6302-0152	H6302-1152	H6302-2152	H6302-4152	H6302-9152
R-134A	SC	50 ppm	150-1000 ppm	H6302-0101	H6302-1101	H6302-2101	H6302-4101	H6302-9101
R-22	SC	50 ppm	150-1000 ppm	H6302-0109	H6302-1109	H6302-2109	H6302-4109	H6302-9109
R-290	IR	850 ppm (5% LEL)	15-100% LEL	H6302-0054	H6302-1054	H6302-2054	H6302-4054	H6302-9054
R-290	SC	250 ppm	400-2500 ppm	H6302-0310	H6302-1310	H6302-2310	H6302-4310	H6302-9310
R-290	SC	250 ppm	150-1000 ppm	H6302-0301	H6302-1301	H6302-2301	H6302-4301	H6302-9301
R-32	SC	50 ppm	150-1000 ppm	H6302-0155	H6302-1155	H6302-2155	H6302-4155	H6302-9155
R-404A	SC	50 ppm	150-1000 ppm	H6302-0103	H6302-1103	H6302-2103	H6302-4103	H6302-9103
R-407A	SC	50 ppm	150-1000 ppm	H6302-0105	H6302-1105	H6302-2105	H6302-4105	H6302-9105
R-407C	SC	50ppm	150-1000 ppm	H6302-0123	H6302-1123	H6302-2123	H6302-4123	H6302-9123
R-407F	SC	50ppm	150-1000 ppm	H6302-0126	H6302-1126	H6302-2126	H6302-4126	H6302-9126
R-410A	SC	50ppm	150-1000 ppm	H6302-0107	H6302-1107	H6302-2107	H6302-4107	H6302-9107
R-422D	SC	50 ppm	150-1000 ppm	H6302-0166	H6302-1166	H6302-2166	H6302-4166	H6302-9166
R-427A	SC	50 ppm	150-1000 ppm	H6302-0167	H6302-1167	H6302-2167	H6302-4167	H6302-9167
R-434A	SC	50 ppm	150-1000 ppm	H6302-0159	H6302-1159	H6302-2159	H6302-4159	H6302-9159
R-448A	SC	50 ppm	150-1000 ppm	H6302-0156	H6302-1156	H6302-2156	H6302-4156	H6302-9156
R-449A	SC	50 ppm	150-1000 ppm	H6302-0169	H6302-1169	H6302-2169	H6302-4169	H6302-9169
R-450A	SC	50 ppm	150-1000 ppm	H6302-0160	H6302-1160	H6302-2160	H6302-4160	H6302-9160

GAS	TYPE	MDL	ALARM RANGE	MGS-410	MGS-450 (IP41)	MGS-450 (IP66)	MGS-460	PRE-CALIBRATED REPLACEMENT SENSORS
R-452A	SC	50 ppm	150-1000 ppm	H6302-0157	H6302-1157	H6302-2157	H6302-4157	H6302-9157
R-452B	SC	50 ppm	150-1000 ppm	H6302-0163	H6302-1163	H6302-2163	H6302-4163	H6302-9163
R-454A	SC	50 ppm	150-1000 ppm	H6302-0164	H6302-1164	H6302-2164	H6302-4164	H6302-9164
R-454B	SC	50 ppm	150-1000 ppm	H6302-0171	H6302-1171	H6302-2171	H6302-4171	H6302-9171
R-454C	SC	50 ppm	150-1000 ppm	H6302-0170	H6302-1170	H6302-2170	H6302-4170	H6302-9170
R-507A	SC	50 ppm	150-1000 ppm	H6302-0111	H6302-1111	H6302-2111	H6302-4111	H6302-9111
R-455A	SC	50 ppm	150-1000 ppm	H6302-0172	H6302-1172	H6302-2172	H6302-4172	H6302-9172
R-513A	SC	50 ppm	150-1000 ppm	H6302-0158	H6302-1158	H6302-2158	H6302-4158	H6302-9158

MGS-400 Series Accessories

DESCRIPTION	PART NUMBER
CALIBRATION ADAPTER	H6302-9990
WALL MOUNTED HORN/STROBE, BLUE LENS, 24V DC (NO CE MARK)	H3015-8041
WALL MOUNTED HORN/STROBE, AMBER LENS, 24V DC (NO CE MARK)	H3015-8042
WALL MOUNTED HORN/STROBE, RED LENS, 24V DC (NO CE MARK)	H3015-8043
WALL MOUNTED STROBE, BLUE LENS, MP120K 120 V AC BUILT-IN ADAPTER	H3015-8044
WALL MOUNTED STROBE, AMBER LENS, MP120K 120 V AC BUILT-IN ADAPTER	H3015-8045
WALL MOUNTED STROBE, RED LENS, MP120K 120 V AC BUILT-IN ADAPTER	H3015-8046
WALL MOUNTED STROBE, GREEN LENS, MP120K 120 V AC BUILT-IN ADAPTER	H3015-8048
MAGNETIC WAND	H1100-1004
SWITCH-MODE POWER SUPPLY 110-240V AC - 24V DC	H1100-1089



Plug & Play, pre-calibrated sensors for easy field replacement.



MGS-400 Mobile App

The MSA Bacharach MGS-400 App allows users to configure, maintain and interface with compatible MGS-400 gas detectors. Once a Bluetooth connection has been established, the app replaces the need for specialty training / tools and makes compliance with safety standards (ASHRAE 15, EN 378) easy and effective.

Features Include:

- Configuration (Rename device, define alarm thresholds, adjust Modbus settings, configure relay behavior and manage analog output settings).
- Maintenance (Test LED / buzzer function, relays, and analog output level).
- Calibration (View sensor type, serial number and "Calibration Due" timer and initiate zero / span calibrations with customizable field calibration certificate).
- Intuitive Interface (View current gas measurement and acknowledge alarm / fault status).



BLUETOOTH CONNECTIVITY.