

Bacharach® MGS-450 IP41 Sensor Specifications



Part Number	Replacement Sensor	Target Gas	Sensor Technology ¹	Fullscale Range	Alarm Range	Low Alarm	High Alarm	Accuracy (% of Range)	Temperature Range
6302-1003	6302-9003	O ₂	EC	30% Volume	4.5%-30% Vol	19.5% Vol	23% Vol	±5%	-20°C to 50°C
6302-1026	6302-9026	NH ₃	EC	100ppm	15-100ppm	50ppm	90ppm	±5%	-40°C to 40°C
6302-1028	6302-9028	NH ₃	EC	1,000ppm	150-1,000ppm	500ppm	900ppm	±5%	-40°C to 40°C
6302-1029	6302-9029	NH ₃	EC	300ppm	10-300ppm	25ppm	150ppm	±5%	-40°C to 40°C
6302-1037	6302-9037	NH ₃	EC	5,000ppm	750-5,000ppm	2,500ppm	4,500ppm	±5%	-20°C to 40°C
6302-1040	6302-9040	CO	EC	500ppm	20-500ppm	25ppm	100ppm	±5%	-40°C to 50°C
6302-1041	6302-9041	NO ₂	EC	20ppm (20,000 ppb)	3,000-20,000ppb	5,000ppb	10,000ppb	±5%	-20°C to 40°C
6302-1052	6302-9052	R-600	IR	100% LEL (1.4% Vol)	15-100% LEL	50% LEL	90% LEL	±5%	-40°C to 50°C
6302-1053	6302-9053	R-50	IR	100% LEL (4.4% Vol)	15-100% LEL	50% LEL	90% LEL	±5%	-40°C to 50°C
6302-1054	6302-9054	R-290	IR	100% LEL (1.7% Vol)	15-100% LEL	50% LEL	90% LEL	±5%	-40°C to 50°C
6302-1069	6302-9069	NH ₃	CT	0-3% Volume	1 - 3.0% Vol	1% Vol	2% Vol	±5%	-40°C to 50°C
6302-1070	6302-9070	NH ₃	CT	0-100% LEL (15% Vol)	15 - 100% LEL	25% LEL	50% LEL	±5%	-40°C to 50°C
6302-1090	6302-9090	CO ₂	IR	5,000ppm	750-5,000ppm	2,500ppm	4,500ppm	±5%	-40°C to 50°C
6302-1091	6302-9091	CO ₂	IR	10,000ppm	1,500-10,000ppm	5,000ppm	9,000ppm	±5%	-40°C to 50°C
6302-1092	6302-9092	CO ₂	IR	20,000ppm	3,000-20,000ppm	10,000ppm	18,000ppm	±5%	-40°C to 50°C
6302-1093	6302-9093	CO ₂	IR	30,000ppm	4,500-30,000ppm	15,000ppm	27,000ppm	±5%	-40°C to 50°C
6302-1094	6302-9094	CO ₂	IR	40,000ppm	6,000-40,000ppm	20,000ppm	36,000ppm	±5%	-40°C to 50°C
6302-1095	6302-9095	CO ₂	IR	50,000ppm	7,500-50,000ppm	25,000ppm	45,000ppm	±5%	-40°C to 50°C
6302-1101	6302-9101	R-134a	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1103	6302-9103	R-404A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1105	6302-9105	R-407A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1107	6302-9107	R-410A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1109	6302-9109	R-22	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1111	6302-9111	R-507A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1123	6302-9123	R-407C	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C

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6302-1126	6302-9126	R-407F	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1152	6302-9152	HFO1234ze	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1155	6302-9155	R-32	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1156	6302-9156	R-448A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1157	6302-9157	R-452A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1158	6302-9158	R-513A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1159	6302-9159	R-434A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1160	6302-9160	R-450A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1161	6302-9161	HFO1234yf	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1163	6302-9163	R-452B	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1164	6302-9164	R-454A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1165	6302-9165	R-422A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1166	6302-9166	R-422D	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1167	6302-9167	R-427A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1169	6302-9169	R-449A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1170	6302-9170	R-454C	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1171	6302-9171	R-454B	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1172	6302-9172	R-455A	SC	1,000ppm	150-1,000ppm	500ppm	900ppm	-10%/+15%	-40°C to 50°C
6302-1301	6302-9301	R-290	SC	5,000ppm	750-5,000ppm	800ppm	2,500ppm	-10%/+15%	-40°C to 50°C
6302-1310	6302-9310	R-290	SC	2,500ppm	400-2,500ppm	1,000ppm	2,000ppm	-10%/+15%	-40°C to 50°C

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Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

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