

# MGS-450 IP41 Sensor Specifications

| PART NUMBER | REPLACEMENT SENSOR | TARGET GAS      | SENSOR TECHNOLOGY <sup>1</sup> | FULLSCALE RANGE      | ALARM RANGE     | LOW ALARM | HIGH ALARM | ACCURACY (% OF RANGE) | TEMPERATURE RANGE |
|-------------|--------------------|-----------------|--------------------------------|----------------------|-----------------|-----------|------------|-----------------------|-------------------|
| 6302-1003   | 6302-9003          | O <sub>2</sub>  | EC                             | 30% Volume           | 4.5%-30% Vol    | 19.5% Vol | 23% Vol    | ±5%                   | -20°C to 50°C     |
| 6302-1026   | 6302-9026          | NH <sub>3</sub> | EC                             | 100ppm               | 15-100ppm       | 50ppm     | 90ppm      | ±5%                   | -40°C to 40°C     |
| 6302-1028   | 6302-9028          | NH <sub>3</sub> | EC                             | 1,000ppm             | 150-1,000ppm    | 500ppm    | 900ppm     | ±5%                   | -40°C to 40°C     |
| 6302-1029   | 6302-9029          | NH <sub>3</sub> | EC                             | 300ppm               | 10-300ppm       | 25ppm     | 150ppm     | ±5%                   | -40°C to 40°C     |
| 6302-1037   | 6302-9037          | NH <sub>3</sub> | 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 <sub>2</sub> | 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 <sub>3</sub> | CT                             | 0-3% Volume          | 1 - 3.0% Vol    | 1% Vol    | 2% Vol     | ±5%                   | -40°C to 50°C     |
| 6302-1070   | 6302-9070          | NH <sub>3</sub> | CT                             | 0-100% LEL (15% Vol) | 15 - 100% LEL   | 25% LEL   | 50% LEL    | ±5%                   | -40°C to 50°C     |
| 6302-1090   | 6302-9090          | CO <sub>2</sub> | IR                             | 5,000ppm             | 750-5,000ppm    | 2,500ppm  | 4,500ppm   | ±5%                   | -40°C to 50°C     |
| 6302-1091   | 6302-9091          | CO <sub>2</sub> | IR                             | 10,000ppm            | 1,500-10,000ppm | 5,000ppm  | 9,000ppm   | ±5%                   | -40°C to 50°C     |
| 6302-1092   | 6302-9092          | CO <sub>2</sub> | IR                             | 20,000ppm            | 3,000-20,000ppm | 10,000ppm | 18,000ppm  | ±5%                   | -40°C to 50°C     |
| 6302-1093   | 6302-9093          | CO <sub>2</sub> | IR                             | 30,000ppm            | 4,500-30,000ppm | 15,000ppm | 27,000ppm  | ±5%                   | -40°C to 50°C     |
| 6302-1094   | 6302-9094          | CO <sub>2</sub> | IR                             | 40,000ppm            | 6,000-40,000ppm | 20,000ppm | 36,000ppm  | ±5%                   | -40°C to 50°C     |
| 6302-1095   | 6302-9095          | CO <sub>2</sub> | 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     |

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| 6302-1123   | 6302-9123          | R-407C     | SC                             | 1,000ppm        | 150-1,000ppm | 500ppm    | 900ppm     | -10%/+15%             | -40°C to 50°C     |
| 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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