

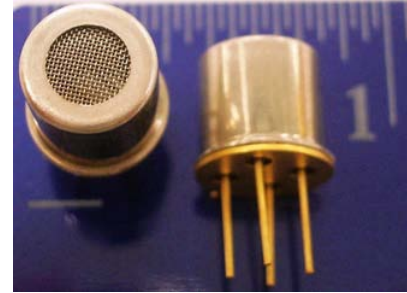


MikroKera 4L Hydrogen Sulfide Sensor (P/N 727)

Synkera Technologies, Inc.
2605 Trade Centre Ave., Ste. C
Longmont, CO 80503

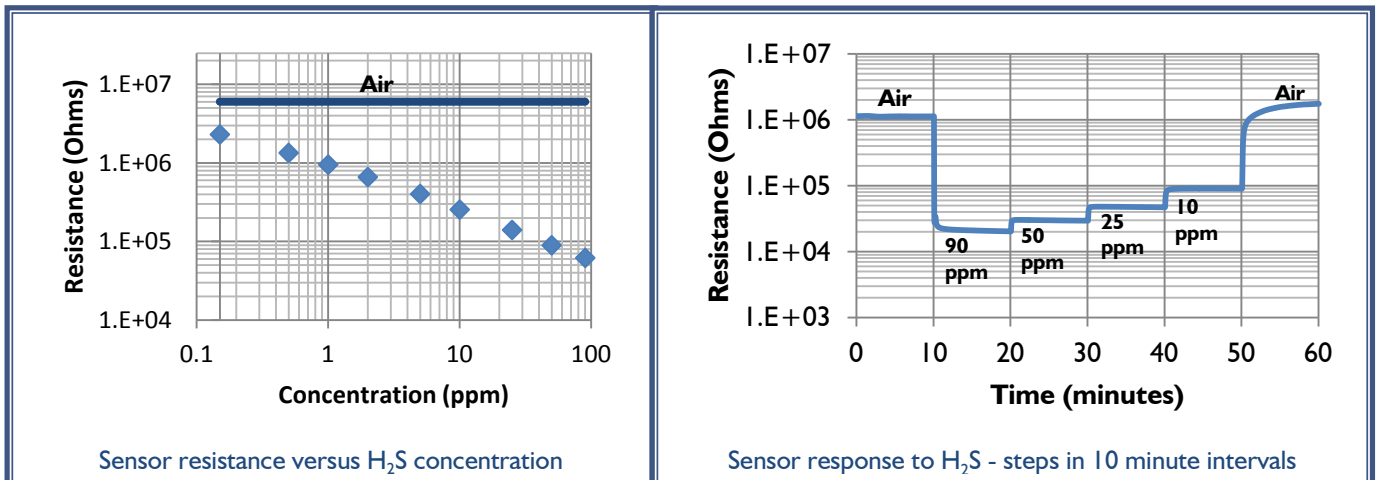
SENSOR FEATURES

- Reliably detects H₂S at concentrations from 0.15 to > 100 ppm
- Rugged sensor operates at temperature and humidity extremes
- Fast response (<5 seconds) and complete recovery after H₂S exposure
- Sensor response is stable (does not go to sleep)
- Thermistor heater allows active control of sensor temperature based on environmental temperature



SENSOR RESPONSE CHARACTERISTICS:

The information below represents typical behavior for sensors operated in clean, dry gas.



Cross Sensitivity – PPM H₂S Equivalents

VAPOR	PPM H ₂ S	VAPOR	PPM H ₂ S
Methane – 1000 ppm	2	Sulfur Dioxide – 5 ppm	< 1
Ethanol 50 - ppm	7	Carbon Monoxide – 100 ppm	2
Hydrogen - 100 ppm	4	Nitrogen Dioxide – 5 ppm	Negative Response
Chlorine – 15 ppm	< 1		

ELECTRICAL CHARACTERISTICS

The electrical properties below are typical for Flammable Gas Sensors. If the actual values differ the customer will be notified with the shipment. Circuits are available that will be preset to the correct values.

PROPERTY	SYMBOL	VALUE	REMARKS
Heater Power Consumption	P _H	~ 225 mW	At V _H = 2.2 VDC
Heater Voltage	V _H	2.2 VDC	T _{sensor} ~300°C
Heater Resistance	R _H	10 Ω ± 1.0 Ω	At room temperature
Sensing Voltage	V _C	2.5 VDC	Recommended
Resistance in Air	R _a	200 kΩ/20 MΩ	Min/Max
Resistance in 50 ppm H ₂ S	R ₅₀	10 kΩ/1 MΩ	Min/Max
Sensitivity	R _a /R ₅₀	15	Min

*Note that all measurements were made in dry gas, at room temperature.

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- For information on warranty, please refer to Synkera Technologies, Inc. Standard Terms and Conditions.
- Information on this data sheet represents typical values from a number of Synkera sensors. Actual values from sensor to sensor can vary slightly.