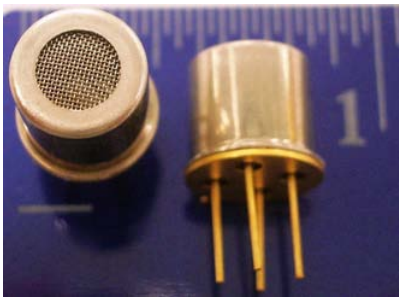
MikroKera 4L Hydrogen Sulfide Sensor (P/N 727)

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

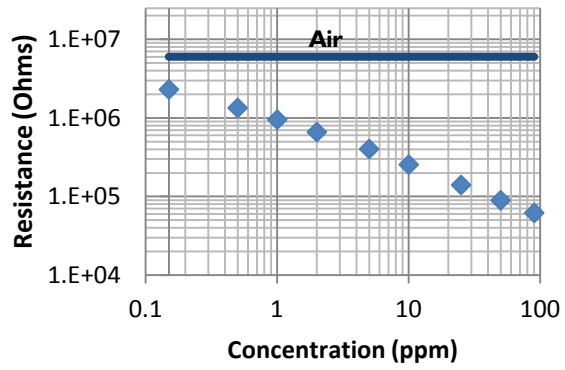
SENSOR FEATURES

- Reliably detects H_2S at concentrations from 0.15 to > 100 ppm
- Rugged sensor operates at temperature and humidity extremes
- Fast response (<5 seconds) and complete recovery after H_2S exposure
- Sensor response is stable (does not go to sleep)
- Thermistor heater allows active control of sensor temperature based on environmental temperature

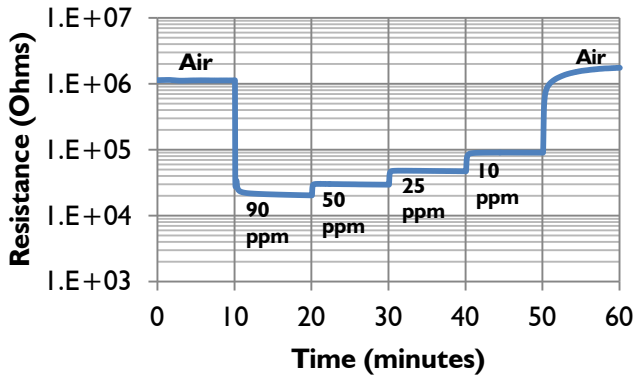


SENSOR RESPONSE CHARACTERISTICS:

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



Sensor resistance versus H_2S concentration



Sensor response to H_2S - steps in 10 minute intervals

Cross Sensitivity –PPM H_2S Equivalents

VAPOR	*PPM H_2S*	*VAPOR*	*PPM H_2S*
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_2S	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.