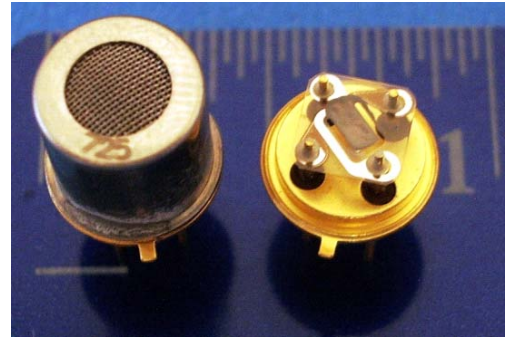


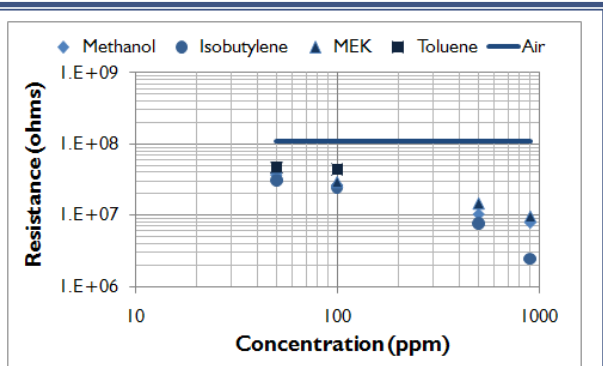
SENSOR FEATURES:

- Strong response to a wide range of VOCs
- Fast response time ($T_{90} < 15$ seconds at 100 ppm ethanol)
- Environmental temperature range of -20 to 50°C
- Thermistor heater allows active control of sensor temperature based on environmental temperature
- Environmental humidity range of 0 to 95% RH, non-condensing

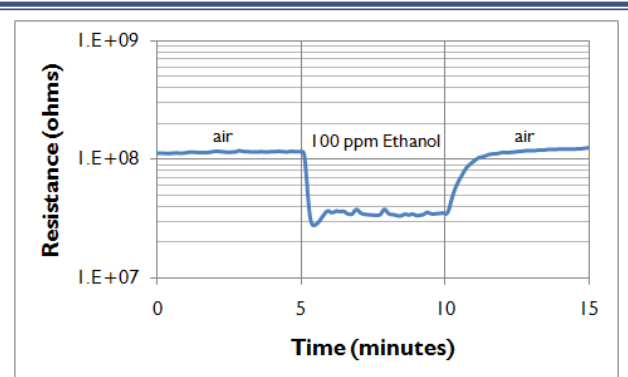


SENSOR RESPONSE CHARACTERISTICS:

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



Sensor resistance versus concentration for various VOCs.



Sensor response to 100 ppm ethanol in humid air. Ethanol applied at 5 min and removed at 10 min.

Cross sensitivity – ppm Isobutylene equivalents.

Vapor	ppm Isobutylene	Vapor	ppm Isobutylene
Methane – 1000 ppm	1	Nitrogen Dioxide – 5 ppm	negative response
Chlorine – 1 ppm	0	Sulfur Dioxide – 5 ppm	negative response
Hydrogen Sulfide – 15	940	Carbon Monoxide – 100 ppm	0

ELECTRICAL CHARACTERISTICS:

The properties below are typical for MikroKera 4L VOC Sensors. Circuits are available that are preset to the appropriate values.

Property	Symbol	Value	Remarks
Heater Power Consumption	P_H	~ 100 mW	Continuous at $V_H = 1.25$
Heater Voltage	V_H	1.25 VDC	$T_{\text{sensor}} \sim 160^{\circ}\text{C}$
Heater Resistance	R_H	$10\Omega \pm 0.5\Omega$	At room temperature
Sensing Voltage	V_C	2.0 VDC	Recommended

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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. Actual values from sensor to sensor can vary slightly.