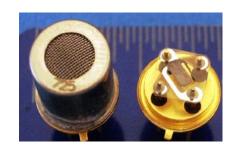


MikroKera 4L VOC Sensor (P/N 725)

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

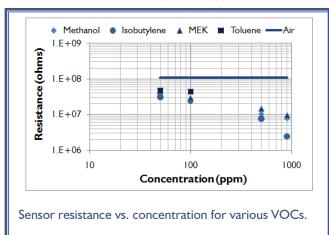
SENSOR FEATURES:

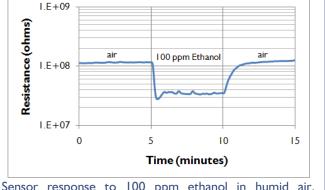
- Strong response to a wide range of VOCs
- Fast response time ($T_{90} < 15$ seconds at 100 ppm ethanol)
- Environmental temperature range of -20 to 50°C
- Thermistor heater allows active control of sensor temperature based on environmental temperature
- Environmental humidity range of 0 to 95% RH,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



SENSOR RESPONSE CHARACTERISTICS:

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





Sensor 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 – I ppm	0	Sulfur Dioxide – 5 ppm	negative response
Hydrogen Sulfide–15 ppm	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 _{sensor} ~160°C
Heater Resistance	R_{H}	$10\Omega \pm 1.0 \Omega$	At room temperature
Sensing Voltage	V _C	2.0 VDC	Recommended
Resistance in Air	R _a	20 ΜΩ/2000 ΜΩ	Min/Max
Resistance in 500 ppm EtOH	R ₅₀₀	500 kΩ/50 M Ω	Min/Max
Sensitivity	R_a/R_{500}	10	Min

^{*}Note that all measurements were made in dry gas, at room temperature

- 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.

 SUNSTAR目录列化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL:SZSS20@163.com December 2012