

UltraKera™ TO Carbon Monoxide (CO) Sensor P/N 730

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

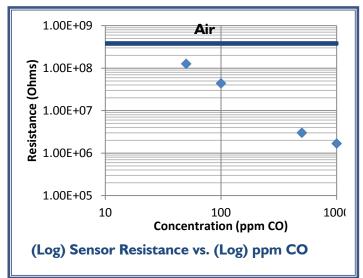
SENSOR FEATURES:

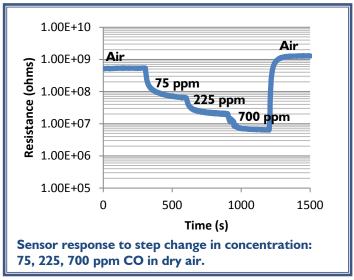
- New low power design
- Environmental temperature range of -40 to 60°C with appropriate heater control
- Thermistor heater allows active control of sensor temperature based on environmental temperature
- Environmental humidity range of 0 to 95% RH, noncondensing
- Sensor packaged on low profile TO-46 header



SENSOR RESPONSE CHARACTERISTICS:

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





CROSS SENSITIVITY – CO EQUIVALENTS				
Vapor	Concentration CO	Vapor	Concentration CO	
Methane – 1000 ppm Ethanol – 50 ppm H ₂ S- 10 ppm	No Response 4 ppm TBD	NO_2 – 5 ppm SO_2 – 5 ppm Hydrogen- 100 ppm	Negative Response No Response 150 ppm	

720-494-8401

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www.synkera.com

720-494-8402 (fax)

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.



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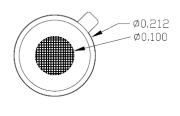
ELECTRICAL CHARACTERISTICS:

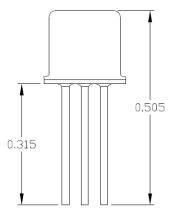
The properties below are typical for UltraKera[™] TO Carbon Monoxide Sensors.

PROPERTY	SYMBOL	VALUE	REMARKS
Heater Power Consumption	P _H	~ 20 mW	Continuous at $V_H = 0.65V$
Heater Voltage	V _H	0.65 VDC	$T_{sensor} \sim 100^{\circ}C$
Heater Current	I _H	~ 30 mA	
Heater Resistance	R_H	15 to 17 Ohms	At room temperature
Sensing Voltage	V _C	2.5 VDC	Typical
Typical Resistance in Air	$R_{\rm a}$	$2~{ m M}\Omega/2000~{ m M}\Omega^*$	Min/Max
Typical Resistance in 500 ppm CO	R ₅₀₀	$100~\text{k}\Omega/10~\text{M}\Omega^*$	Min/Max
Repeatability		+/-5% Full Scale/ +/- 10% Reading	Whichever is Greater
Accuracy		+/- 5% of Full Scale	0-5% CO

^{*}Note that all measurements were in dry gas, at room temperature. Specifications based on preliminary data and are subject to change

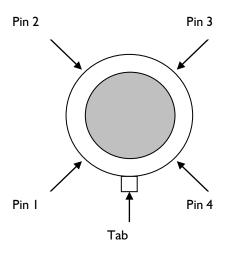
SENSOR DIMENSIONS:





SENSOR PIN OUT:

Top view of sensor



- I- Heater +
- 2 Sensor +
- 3 Common
- 4 No Connect

720-494-840 l e-mail: <u>info@synkera.com</u>

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