

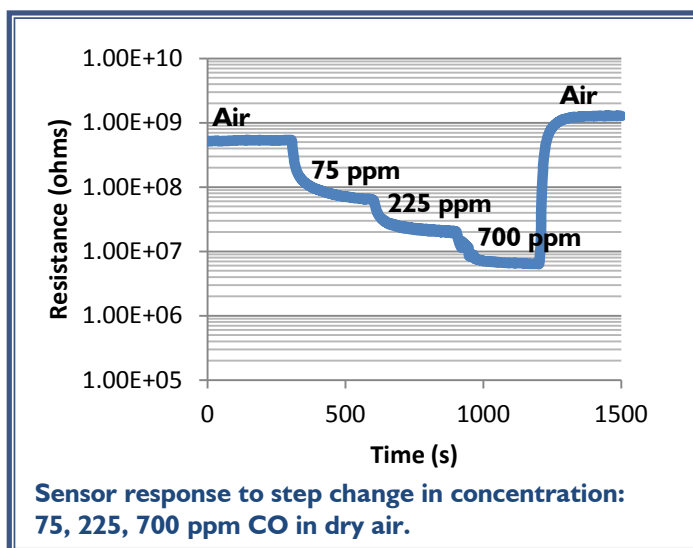
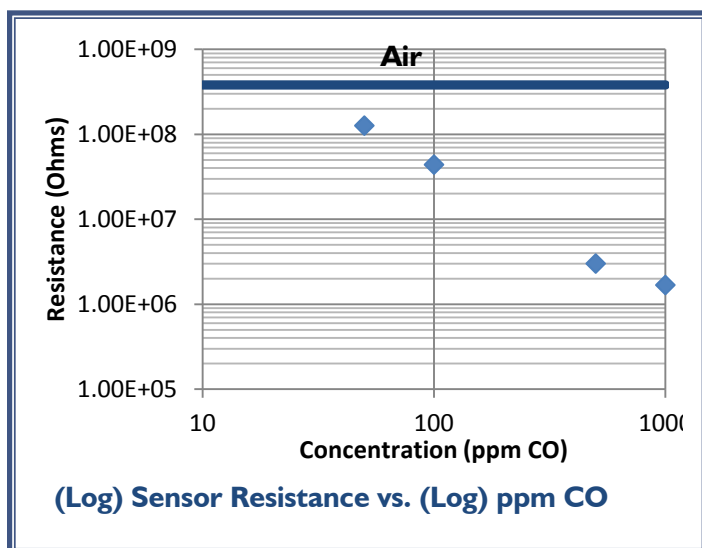
### SENSOR FEATURES:

- New low power design
- Environmental temperature range of  $-40$  to  $60^{\circ}\text{C}$  with appropriate heater control
- Thermistor heater allows active control of sensor temperature based on environmental temperature
- Environmental humidity range of 0 to 95% RH, non-condensing
- 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	No Response	NO <sub>2</sub> – 5 ppm	Negative Response
Ethanol – 50 ppm	4 ppm	SO <sub>2</sub> – 5 ppm	No Response
H <sub>2</sub> S- 10 ppm	TBD	Hydrogen- 100 ppm	150 ppm

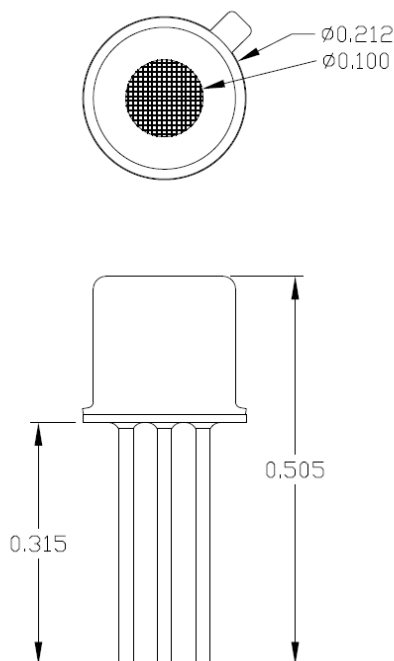
## ELECTRICAL CHARACTERISTICS:

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	$T_{\text{sensor}} \sim 100^\circ\text{C}$
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	$R_a$	2 MΩ/2000 MΩ*	Min/Max
Typical Resistance in 500 ppm CO	$R_{500}$	100 kΩ/10 MΩ*	Min/Max
Repeatability		+/-5% Full Scale/ +/- 10% Reading	Whichever is Greater
Accuracy		+/- 5% of Full Scale	0-5% CO

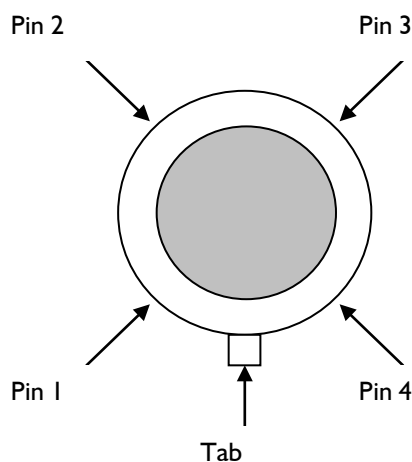
\*Note that all measurements were in dry gas, at room temperature. Specifications based on preliminary data and are subject to change

## SENSOR DIMENSIONS:



## SENSOR PIN OUT:

Top view of sensor



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