

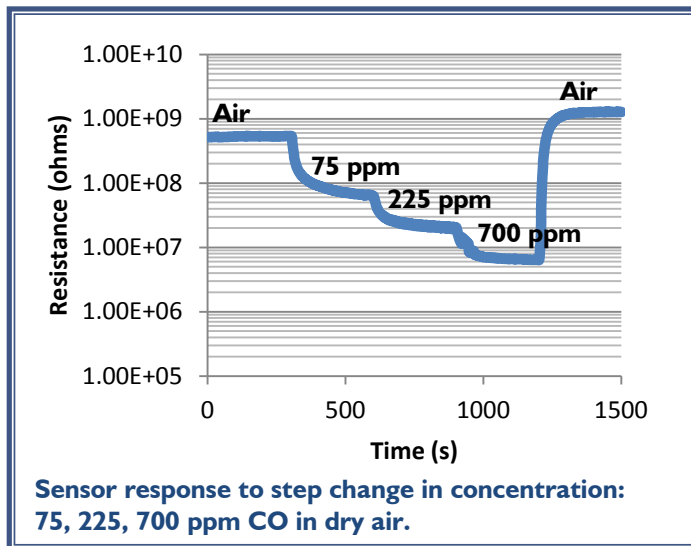
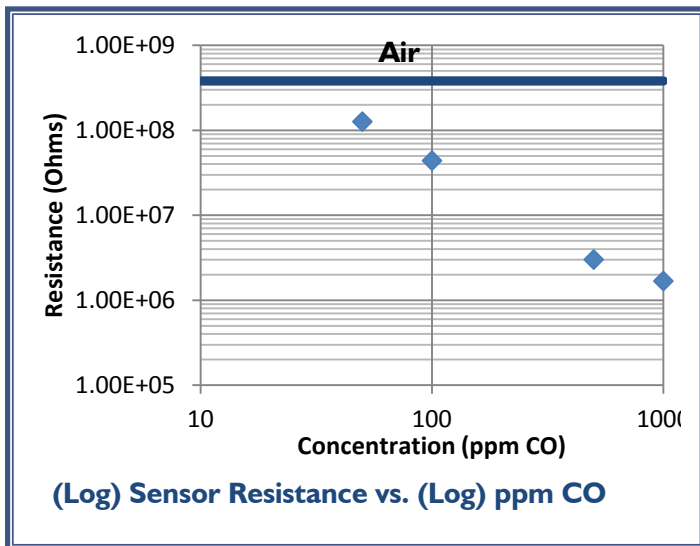
SENSOR FEATURES:

- 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, 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 ₂ – 5 ppm	Negative Response
Ethanol – 50 ppm	4 ppm	SO ₂ – 5 ppm	No Response
H ₂ S- 10 ppm	TBD	Hydrogen- 100 ppm	150 ppm

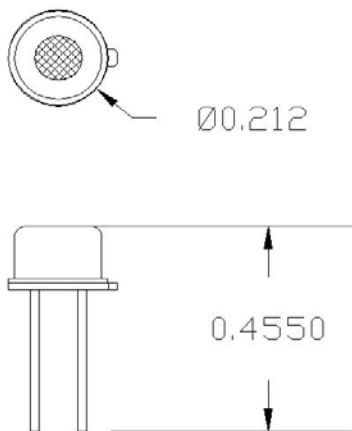
ELECTRICAL CHARACTERISTICS:

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

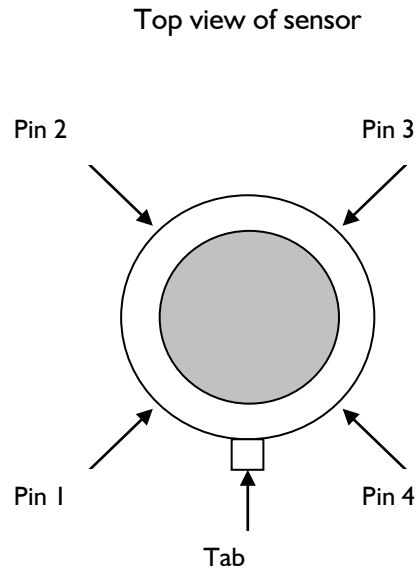
PROPERTY	SYMBOL	VALUE	REMARKS
Heater Power Consumption	P_H	~ 20 mW	Continuous at $V_H = 0.65V$
Heater Voltage	V_H	0.65 VDC	$T_{sensor} \sim 100^{\circ}C$
Heater Resistance	R_H	15 to 17 Ohms	At room temperature
Sensing Voltage	V_C	2.5 VDC	Typical
Typical Resistance in Air	R_a	2 M Ω /2000 M Ω^*	Min/Max
Typical Resistance in 500 ppm CO	R_{500}	100 k Ω /10 M Ω^*	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:



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