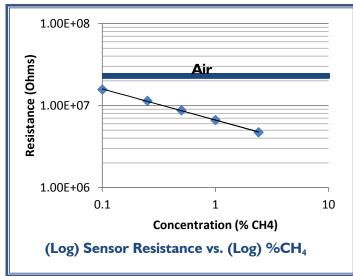
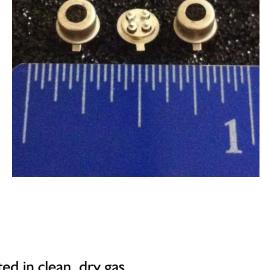
SENSOR FEATURES:

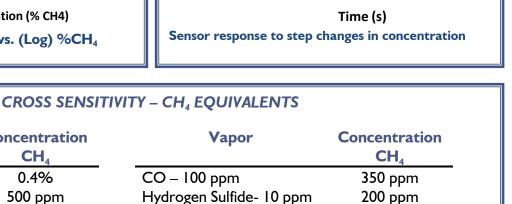
- New low power design: 42 mA @ 1.18V
- Innovative chemiresistor technology with possibility of integration into intrinsically safe devices
- Environmental temperature range of -40 to 60°C with appropriate heater control
- Thermistor heater allows active control of sensor temperature based on environmental 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.







0.1% 0.25% 0.5% 1.0%

1000

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I)-49	•Ľ1	VI.

Vapor

Hexane- 0.05%

Ethanol- 50 ppm

Propane- 2500 ppm

e-mail: info@synkera.com

www.synkera.com

Hydrogen- 100 ppm

1.00E+08

1.00E+07

1.00E+06

0

Resistance (Ohms)

720-494-8402 (fax)

5%

For information on warranty, please refer to Synkera Technologies, Inc. Standard Terms and Conditions.

Concentration

CH₄

0.4%

500 ppm

3%

Information on this take the represents typical values from a number of Staket Representation of this taket the representative of th

2000

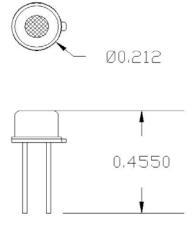
ELECTRICAL CHARACTERISTICS:

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

PROPERTY	SYMBOL	VALUE	REMARKS
Heater Power Consumption	P_{H}	~ 50 mW	Continuous at V _H = 1.18
Heater Voltage	V_{H}	1.18 VDC	T _{sensor} ∼230°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}	I M Ω /20 M Ω^*	Min/Max
Typical Resistance in 1.0% CH ₄	R _{1.0}	50 kΩ/800 k Ω^*	Min/Max
Repeatability		\pm 5% Full Scale/ \pm 10%	Whichever is Greater
		Reading	
Accuracy		\pm 5% of Full Scale	0-5% CH₄

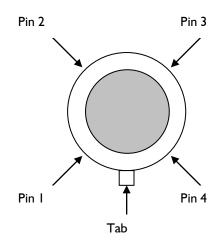
^{*}Note that all measurements were in dry gas, at room temperature. Specifications based on preliminary data and are subject to change

SENSOR DIMENSIONS:



SENSOR PIN OUT:

Top view of sensor



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

720-494-8401 e-mail: info@synkera.com www.synkera.com

720-494-8402 (fax)

For information on warranty, please refer to Synkera Technologies, Inc. Standard Terms and Conditions.

Information on this date there sents typical values from a number of States of States of States at the from season to sensor can vary slightly.