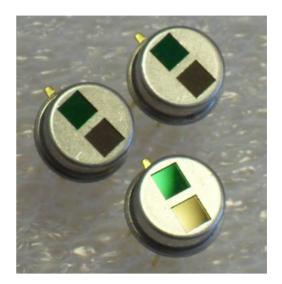
SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182E-MAIL: szss20@163.com PY-ITV-DuAL-T039(3+1)



#### Introduction

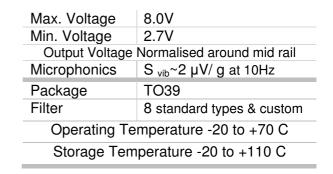
The Pyreos thin film pyroelectric gas detectors offer exceptionally high responsivity, low microphonics and class leading thermal and electrical stability. This high performance detector achieves a signal to noise of ~10,000 and offers a fast, stable response over a wide operating frequency range. The sensor elements are built into a low noise circuit that has an internal cmos op amp, with a 10 G Ohm feedback resistor outputting an industry standard voltage mode signal. With a standard pin out it makes it a simple replacement for leading voltage mode devices.

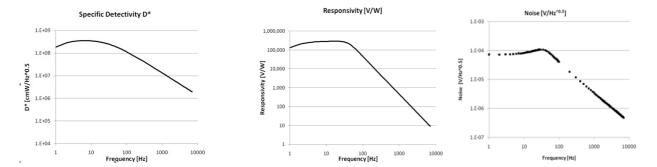


#### **Sensor Information**

Filter aperture	2.6 mm square				
Element size	1000 μm x 1000 μm				
Op amp with 10G Ohm feedback resistor					
Time Constant	~12 ms				
Responsivity <sup>1</sup>	150,000 V/W				
Responsivity <sup>1</sup> D* <sup>1</sup>	150,000 V/W <i>3.5 x 10<sup>°</sup> cm√Hz/ W</i>				

Frequen	cv Ch	aracte	ristics
ricqueil	<b>cy c</b> 1	anacic	13103



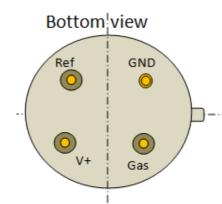


**Please note:** the information contained in this document is subject to change without further notification. Pyreos reserves the right to alter the performance and any resulting specification. Pyreos may choose not to supply any engineering sample devices as a commercial product. No responsibility is accepted for any consequential loss incurred. Pyreos Ltd, SMC, West Mains Road, Edinburgh EH9 3JF, UK. Tel:+441316507009, <u>www.pyreos.com</u>; © Copyright Pyreos Ltd 2011

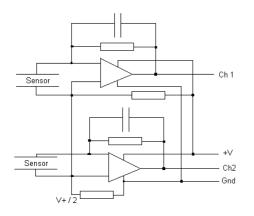
SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL: szss20@163.com

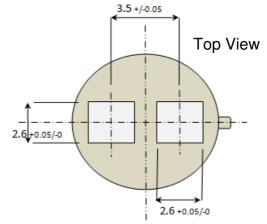
# SUNSTAR传感与控制 http://www.sensor-ic.com/TEL:0755\_92376549\_FAX.0755-82376492E-MAIL: szss200163.com

### **Package Information**

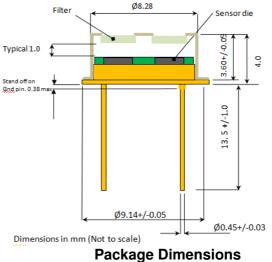


#### Pin compatible with leading brands





## Filter Window Size

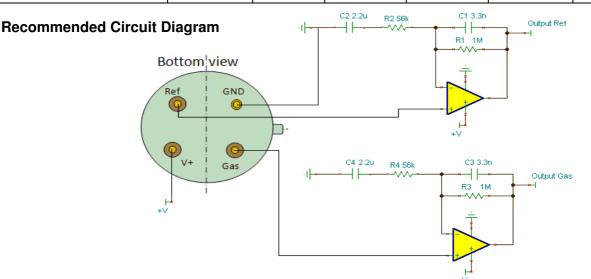


## Voltage mode output

#### Filters Available

Pyreos has a range of standard filters for CO<sub>2</sub> CO hydrocarbon methane NOx SOx fire/flame and we can also rapidly process a customized filter for you. Typical performance values measured are shown.

<b>Filter</b> CWL μm (HBP nm)	<b>CO</b> <sub>2</sub> 4.26(180)	<b>CO</b> 4.64(180)	<b>CH</b> <sub>4</sub> 3.30(160)	<b>H-C</b> 3.375(190)	<b>CO</b> <sub>2</sub> Narrow 4.27(90)	<b>CO</b> Narrow 4.64(90)	<b>Ref.</b> 3.91(90)
Responsivity V/W (500K,10Hz)	7700	8200	3700	4200	3100	5300	5100
Noise 10Hz uV√ <i>Hz</i>	70	70	70	70	70	70	70



Please note: the information contained in this document is subject to change without further notification. Pyreos reserves the right to alter the performance and any resulting specification. Pyreos may choose not to supply any engineering sample devices as a commercial product. No responsibility is accepted for any consequential loss incurred. Pyreos Ltd, SMC, West Mains Road, Edinburgh EH9 3JF, UK. Tel:+441316507009, WWNTAPERTY to control of the performance of the