

阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .



GAS SENSORS : TYPE AD81

CO & NO₂ GAS SENSOR

PROVISIONAL DATA

DESCRIPTION:

Gas sensor made of thick film element.

FEATURES:

- Two sensing element on one chip: for CO(gasoline exhaust gas) and NO₂(diesel exhaust gas)
- Low influence of ambient atmosphere
- Typical applications include automatic damper in automotive cabin.

DATA:

Operating conditions:

Operating temperature -10 to + 55°C

Storage temperature -30 to + 85°C

Load Resistor R_L Variable

Heater resistance 19Ω (nom)

Rated power consumption P_s 20mW nom

Rated working voltage of circuit V_c

..... 5 ± 0.2V d.c.

..... 5 ± 0.2 Vrms a.c.

Parts and material:

Sensing element Semiconducting oxide

Thick film heater Platinum

Case Nylon 66

Pin Nickel alloy

Flame arrestor

.... Double 100-mesh stainless gauze(SUS316)

Sensitivity characteristics:

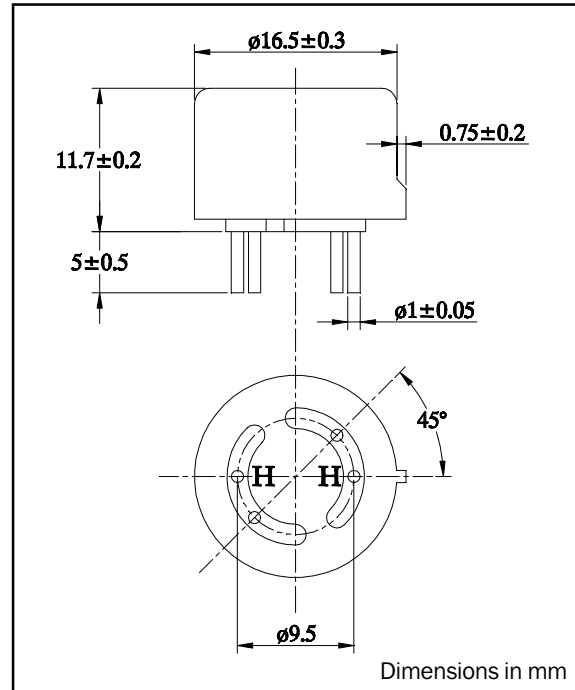
	Specification	Conditions
Output voltage in clean air	2 - 0.3 V	
Voltage change in gas	-0.5 - 0.15V	2ppm of NO ₂
Power consumption	620mW (nom)	

Mechanical characteristics:

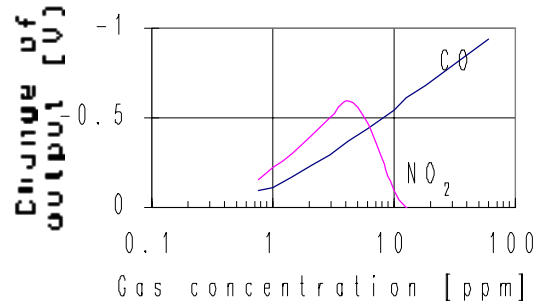
Test	Condition	Performance
Vibration	Frequency:	10 - 500 Hz
	Amplitude (10 - 50Hz):	2 mm
	Acceleration (50 - 500 Hz)	10G
	Reciprical scanning time:	5 min
	Test time: 2 hours each for X, Y and Z directions	
Shock	Acceleration:	100G
	Number of impacts:	5

Should satisfy the specifications shown in the sensitivity characteristics

DIMENSIONS:



Typical gas sensitivity:



Data sheet D-AD81-1



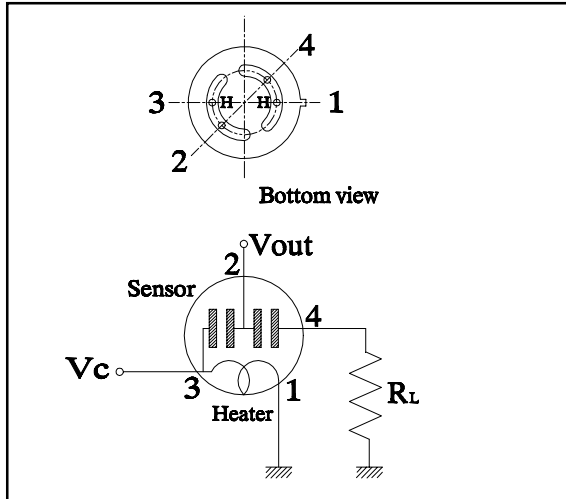
GAS SENSORS : TYPE AD81

CO & NO₂ GAS SENSOR

PROVISIONAL DATA

NOTES:

Pin allocation and standard test circuit:



Test conditions:

Atmosphere

Clean air at $25 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ RH without noise gas.

Circuit condition

V_c (circuit voltage) $5 \pm 0.05\text{V}$

R_L 340 to 1000Ω

Preheat time 24 hours

Test gas

NO₂ 2ppm

WARNING:

Do not use if the case or wire netting is damaged, otherwise built-in heater may cause explosions or fires.
Do not disassemble or change any parts.
Use only within specified conditions.

Data sheet D-AD81-1