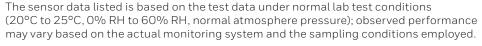


**Smart Sensor Specifications** 

Bringing new visibility, reliability, and ease-of-use to gas detection in semiconductor processing and industrial manufacturing.

OXYGEN (O <sub>2</sub> )
MMS-D2
3 electrode electrochemical cell
O <sub>2</sub> 0% v/v to 25% v/v
23.5% v/v (rising)
19.5% v/v (falling)
$^{<\pm0.2\%}\text{v/v}$ at 20.9% v/v $\text{O}_2$
Typical 11 seconds
36 months under typical application conditions
0°C to 40°C (32°F to 104°F)
<±0.2% of measured value/°C
15% RH to 90% RH
Follows actual concentration of O $_2$ present (eg. 20.9% v/v @ 30% RH, 20.04% v/v @ 99% RH/40°C)
70 kPa to 110 kPa
No effect in typical application
No drift <5% signal loss over operating life
Oxygen (O <sub>2</sub> 20.9% v/v)
Air mixture
<30 minutes
5°C to 25°C (41°F to 77°F)



NOTE: The abrupt pressure change due to flow load change can cause false gas readings or false alarms.



# Midas®-M Oxygen (O<sub>2</sub>) Specifications

# **OTHER DETECTABLE GASES**

The following additional gases can be detected with this sensor cartridge. Sensor performance and characteristics will be representative of the data as tabulated above. Consult the Technical Manual to set up the Midas®-M transmitter with the designated identification code for each of the following gas types:

DETECTABLE GAS	CHEMICAL FORMULA	MEASURING RANGE

# **CROSS SENSITIVITIES**

Each Midas-M sensor is potentially cross sensitive to other gases and this may cause a gas reading when exposed to other gases than those originally designated. The table below presents typical readings that will be observed when a new sensor cartridge is exposed to the cross sensitive gas (or a mixture of gases containing the cross sensitive species).

NOTE: The cross sensitivity data shown below does not form part of the product specification and is supplied for guidance only. Values quoted are based on tests conducted on a small number of sensors and any batch may show significant variation.

GAS/VAPOR	CHEMICAL FORMULA	CONCENTRATION APPLIED	READING (%v/v O₂)
Carbon Dioxide	CO <sub>2</sub>		Enhance $O_2$ reading by $0.3\%$ / $\%$ $CO_2$
Hydrogen	H <sub>2</sub>	100% v/v	-9
Methane	CH <sub>4</sub>	100% v/v	No response
Nitrogen Dioxide	NO <sub>2</sub>	25 ppm in air	No response

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www.honeywellanalytics.com/en/products/



THE FUTURE IS WHAT WE MAKE IT

