



**Oxygen (O<sub>2</sub>)**  
**9602-5500**

# Oxygen (O<sub>2</sub>) 9602-5500



**MST Gas Sensors 9602-5500 is only intended for use with the following Honeywell Analytics gas detectors:**



Satellite Series



Sat-Ex



Satellite PGD

Please refer to the specific gas detector's Operational Manual for further details.

<b>Oxygen O<sub>2</sub></b>	
<b>Sensor Type</b>	O <sub>2</sub> Oxygen
<b>Part Number</b>	9602-5500
<b>Measuring Principle</b>	Amperometric 2-electrode sensor
<b>Colour of Sensor Cap</b>	Grey
<b>Specific Sensor Data</b>	Programmed on PROM inside the sensor
<b>Standard Range</b>	0.0 to 25.0% v/v
<b>Lower Detectable Limit (LDL)</b>	0.0% v/v
<b>Maximum Range</b>	30% v/v
<b>Sensitivity Decay</b>	<2% signal/month (typically <15% over Operating Life)
<b>Sensitivity</b>	80-120µA @ 20.9 v/v
<b>Response Time</b>	Constant within standard range
<b>t<sub>50</sub></b>	n/d
<b>t<sub>90</sub></b>	< 15 s
<b>Sensor Warm-up Time</b>	5 s
<b>Operating Conditions</b>	Continuous: 5 - 95 % r.h. -20°C to +50°C Short term: 0 - 99 % r.h. non-condensing -30°C - +55°C
<b>Storage Conditions</b>	0°C to +4°C; 40 - 60 % r.h. non-condensing
<b>Temperature Dependence</b>	Compensated with microprocessor
<b>Sensor Life Expectancy</b>	> 12 months
<b>Sensor Dimensions</b>	
<b>Height</b>	44mm (1.69")
<b>Diameter</b>	21.5mm (0.84")
<b>Weight</b>	27g (0.95oz)

**Note:**

All response data given are typical values and related to the sensor being used under normal conditions, i.e. temperature 20°C, r.h. 40-60%, 1013mbar. The accuracy of the readings at levels below 5% v/v cannot be relied upon.

# General Specification



## Cross Sensitivities

Cross Sensitivities of the O<sub>2</sub> Sensor may occur with such strongly oxidising gases as for instance NOX or Cl<sub>2</sub>. Normally, these gases do not influence the oxygen reading (% range), as their concentration in work place environment is too low (ppm range).

- Acid Gases (e.g. CO<sub>2</sub>, SO<sub>2</sub>) lead to an enhanced oxygen signal.
- The sensor should not be used at constant CO<sub>2</sub> concentrations above 25%.
- Extended exposure to organic solvents will poison the sensor.

Test Conditions: T=20°C, P=1013 hPa, Flow Rate = 30 l/h

Please note that the values stated above are approximate values. Negative values are not displayed on the transmitter LCD display, they will be shown as 0.

# Our Product Range



## Fixed Gas Monitoring

Honeywell Analytics offers a wide range of fixed gas detection solutions for a diverse array of industries and applications including: Commercial properties, industrial applications, semiconductor manufacturers, energy plants and petrochemical sites.

- » Detection of flammable, oxygen and toxic gases (including exotics)
- » Innovative use of 4 core sensing technologies – paper tape, electrochemical cell, catalytic bead and infrared
- » Capability to detect down to Parts Per Billion (ppb) or Percent by Volume (%v/v)
- » Cost effective regulatory compliance solutions

## Portable Gas Monitoring

When it comes to personal protection from gas hazards, Honeywell Analytics has a wide range of reliable solutions ideally suited for use in confined or enclosed spaces.

These include:

- » Detection of flammable, oxygen and toxic gases
- » Single gas personal monitors – worn by the individual
- » Multi-gas portable gas monitors – used for confined space entry and regulatory compliance
- » Multi-gas transportable monitors – used for temporary protection of area during site construction and maintenance activities

## Technical Services

At Honeywell Analytics, we believe in the value of great service and customer care. Our key commitment is providing complete and total customer satisfaction. Here are just a few of the services we can offer:

- » Full technical support
- » Expert team on hand to answer questions and queries
- » Fully equipped workshops to ensure quick turnaround on repairs
- » Comprehensive service engineer network
- » Training on product use and maintenance
- » Mobile calibration service
- » Customised programmes of preventative/corrective maintenance
- » Extended warranties on products

### Find out more

[www.honeywellanalytics.com](http://www.honeywellanalytics.com)

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