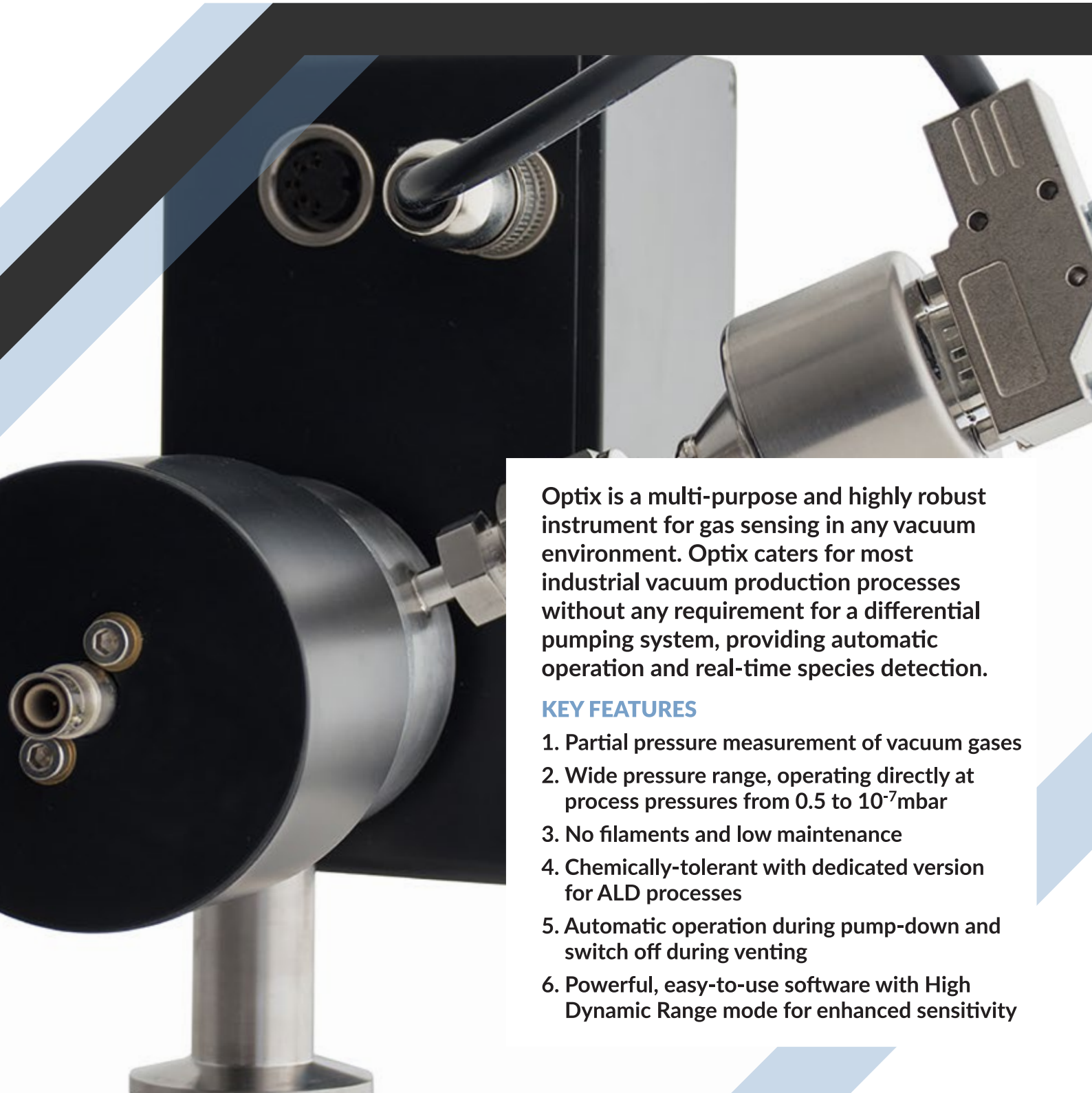




# OPTIX GAS SENSOR



Optix is a multi-purpose and highly robust instrument for gas sensing in any vacuum environment. Optix caters for most industrial vacuum production processes without any requirement for a differential pumping system, providing automatic operation and real-time species detection.

#### KEY FEATURES

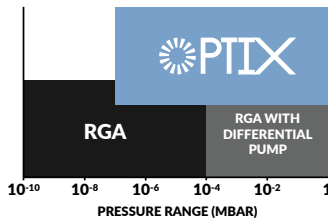
1. Partial pressure measurement of vacuum gases
2. Wide pressure range, operating directly at process pressures from 0.5 to  $10^{-7}$  mbar
3. No filaments and low maintenance
4. Chemically-tolerant with dedicated version for ALD processes
5. Automatic operation during pump-down and switch off during venting
6. Powerful, easy-to-use software with High Dynamic Range mode for enhanced sensitivity

Perfect your process  
[www.gencoa.com](http://www.gencoa.com)

# OPTIX

## APPLICATIONS

- Leak detection, vacuum quality, pressure sensing
- PVD, CVD, ALD
- Heat treatment
- Fusion, cannabinoids, gas sampling



Genco Optix provides fast and robust analysis of gases within a vacuum, without differential pumping (pump required for atmospheric sampling). Unlike RGA's, the Optix detector is separated from vacuum/chemicals by an optical window that protects against operator damage.

Optix uses a remote plasma spectroscopy concept which generates a small plasma within the sensor head. A built-in high resolution spectrometer analyzes the plasma, automatically interpreting the light spectrum to provide quantitative measurement of the presence and concentration of gas within the vacuum.

The Optix spectral information and sophisticated back-end software benefit a wide range of applications. For very high chemical levels, a special plasma power mode is used to prevent electrode contamination.

## SOFTWARE

An advanced Windows user interface provides clear visualisation of the condition of the process and vacuum, and powerful tools for recording and referencing data enable easy identification of process problems.

Up to 20 gases can be monitored simultaneously, with process gas tracking that can be set up with trigger/alarm outputs.

A full, tuneable spectrum view (200-850nm) provides control of integration time for sensitivity adjustments, and automatic gas peak detection works in real-time without the need to export for data identification.

OPTIX SPECIFICATIONS	
<b>OPTIX SENSOR DIMENSIONS</b>	300mm x 170mm x 95mm
<b>PSU DIMENSIONS</b>	165mm x 105mm x 55mm
<b>SENSOR WEIGHT</b>	2.2kg
<b>VACUUM CONNECTION</b>	KF25 flange
<b>INPUT VOLTAGE</b>	24V
<b>INPUT POWER</b>	20W typical
<b>OUTPUT VOLTAGE</b>	3kV max
<b>OUTPUT CURRENT</b>	1mA max
<b>TOTAL PRESSURE OPERATING RANGE</b>	1x10 <sup>-7</sup> mbar - 0.5 mbar
<b>SENSITIVITY</b>	50ppm air in argon at 1.6x10 <sup>-2</sup> mbar total pressure
<b>SPECTRAL RANGE</b>	200nm - 850nm
<b>UPDATE SPEED</b>	5ms - 10 seconds (depending on sensitivity selected)
<b>COMMUNICATION INTERFACES</b>	OPC, RS232, Ethernet, Digital relay output (x4)
<b>SOFTWARE</b>	Windows 7, 8, 10 and 11 compatible

## FURTHER INFORMATION

Contact: [sales@genco.com](mailto:sales@genco.com) or visit [www.genco.com/optix](http://www.genco.com/optix)

