

Optix is a multi-purpose and highly sensitive 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

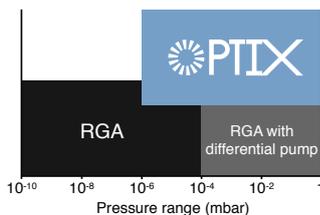
1. Wide pressure range, operating directly at process pressures from 0.5 to 10^{-7} mbar
2. Built-in pressure gauge as standard
3. No filaments and low maintenance
4. Chemically-tolerant with dedicated version for ALD and CVD processes
5. Automatic calibration of total pressure reading
6. Sophisticated software with High Dynamic Range HDR mode for enhance sensitivity

OPTIX

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APPLICATIONS

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



Genco Optix provides fast analysis of gases within a vacuum, without differential pumping (pumping needed only for atmospheric sampling). Unlike RGA's, the Optix detector is separated from chemicals/vacuum by an optical window which provide protection from 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 qualitative 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. The mode of operation means contaminating processes involving hydrocarbons, solvents and long-chain polymers do not impact the detection. 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 on simultaneous wavelengths, 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	
OPTIX SENSOR DIMENSIONS	300mm x 170mm x 95mm
PSU DIMENSIONS	165mm x 105mm x 55mm
SENSOR WEIGHT	2.2kg
VACUUM CONNECTION	KF25 flange
INPUT VOLTAGE	24V
INPUT POWER	20W typical
OUTPUT VOLTAGE	3kV max
OUTPUT CURRENT	1.5mA max
TOTAL PRESSURE OPERATING RANGE	1x10 ⁻⁶ mbar - 0.5 mbar
SENSITIVITY	50ppm air in argon at 1.6x10 ⁻² mbar total pressure
SPECTRAL RANGE	200nm - 900nm
UPDATE SPEED	5ms - 10 seconds (depending on sensitivity selected)
COMMUNICATION INTERFACES	OPC, RS232, Ethernet , Digital relay output (x4)
SOFTWARE	Windows 7, 8 and 10 compatible

FURTHER INFORMATION

Contact: sales@genco.com or visit www.genco.com/optix

