OPTIX SPECIFICATIONS

Technical specifications for Gencoa Optix 3.0

Optix is a multi-purpose and highly robust instrument for gas sensing in any vacuum environment, providing automatic operation and real-time species detection.

Based upon the Remote Plasma Emission Monitoring (RPEM) method, Optix caters for most industrial vacuum processes without a requirement for differential pumping, functioning at process pressures from 0.5 to 10^{-7} mbar.

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DIMENSIONS	270 mm x 162 mm x 82 mm
WEIGHT	2.2 kg
VACUUM CONNECTION	KF25 flange as standard
VACUUM LEAK RATE	Leak checked to $1x10^{-9}$ mbar l/s
POWER REQUIREMENTS	24 VDC, <30 watts max
OUTPUT VOLTAGE	3 kV max
TOTAL PRESSURE OPERATING RANGE	1 x 10^{-7} mbar ~ 0.5 mbar
SENSITIVITY	50 ppm air in argon at 1.6 x 10^{-2} mbar total pressure
SPECTRAL RANGE	120 nm ~ 900 nm
UPDATE SPEED	5 ms ~ 10 seconds (depending on sensitivity selected)
COMMUNICATION INTERFACE	RS232, OPC DA, Modbus TCP, Digital relay output (x4)
SOFTWARE	Windows 7 or later
OPERATING TEMPERATURE	10 - 40°C
HUMIDITY	≤85% (non-condensing)
BAKEOUT TEMPERATURE	85°C
MOUNTING ORIENTATION	Any
COMPLIANCE	CE, UKCA
VACUUM FACING COMPONENTS	O-rings (Viton), Gasket (Copper), Anode (Molybdenum, Alumina Ceramic), Window (Sapphire) and cathode (Stainless Steel, Aluminium)

Beyond the standard specifications, Optix can also be assembled with additional options for vacuum connections, power supply and a high sensitivity spectrometer.

	AVAILABLE OPTIONS
VACUUM CONNECTIONS	KF 16, CF 40
PLASMA POWER SUPPLY	3 kV, 50 – 330 µA or 1KV 50 – 1000 µA
HIGH SENSITIVITY SPECTROMETER	2-3 x signal to noise ratio compared to standard spectrometer

OPTIX DIMENSIONS

Optix 3.0 unit dimensions