

KJLC[®] Residual Gas Analyzers (RGA)



Kurt J. Lesker[®]
Company

VACUUM MART[™]
DIVISION

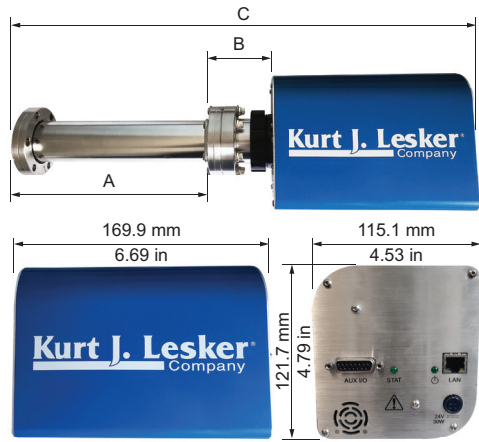
Applications

- Leak detection
- Pump-down and bake-out monitoring
- Gas and contamination identification
- Vacuum system diagnostics
- Process monitoring and control

Features

- 2.6×10^{-12} Torr Minimum Detectable Partial Pressure (MDPP) with FC and 1.5×10^{-14} Torr Minimum Detectable Partial Pressure (MDPP) with EM
- 100 and 200 amu options
- Pre-built LabVIEW Drivers available
- Access to API commands for system integration

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Dimensions Approximate

Specifications

Model	RGA w/FC	RGA w/EM
Source Type	Open Ion Source	Open Ion Source
Mass Ranges	1-100 amu 1-200 amu	1-100 amu 1-200 amu
Resolution - Peak Width (amu) at 10% of Peak Height	0.9 amu	0.9 amu
Sensitivity	3 ⁻⁴ A/Torr	3 ⁻⁴ A/Torr
Minimum Detectable Partial Pressure	2.6 ⁻¹² Torr 3.5 ⁻¹² mbar	1.5 ⁻¹⁴ Torr 2 ⁻¹⁴ mbar
Maximum Operating Pressure	5 ⁻⁴ Torr 6.7 ⁻⁴ mbar	5 ⁻⁴ Torr 6.7 ⁻⁴ mbar
Maximum Sensor Operating Temperature	200°C 392°F	150°C 302°F
Operating Temperature (electronics)	5 - 50°C 41 - 122°F	5 - 50°C 41 - 122°F
Bakeout Temperature (without electronics)	300°C 572°F	300°C 572°F
Zero Blast Interference at Mass 2	< 100 ppm	< 100 ppm
Web Interface Communication	Cat5e Ethernet	Cat5e Ethernet
LabView Drivers available	Yes	Yes
API accessible	Yes	Yes
Power Input	20-30 VDC, 24 VDC typical	20-30 VDC, 24 VDC typical
Power Connection	Latching, 4 pin DIN connector, internally isolated from system ground	Latching, 4 pin DIN connector, internally isolated from system ground
Filament Options	Tungsten or Yttria-Coated Iridium	Tungsten or Yttria-Coated Iridium
Sensor Length (vacuum side)	5.63 in 143 mm	7.82 in 193 mm
Electronics Dimentions, Length	6.69 in 170 mm	6.69 in 170 mm
Electronics Dimentions, Length	4.53 in 115.1 mm	4.53 in 115.1 mm
Electronics Dimentions, Length	4.79 in 121.7 mm	4.79 in 121.7 mm

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