

CONVECTION ENHANCED PIRANI GAUGES

275 Series Gauge



Kurt J. Lesker[®]
Company

VACUUM MART[™]
DIVISION

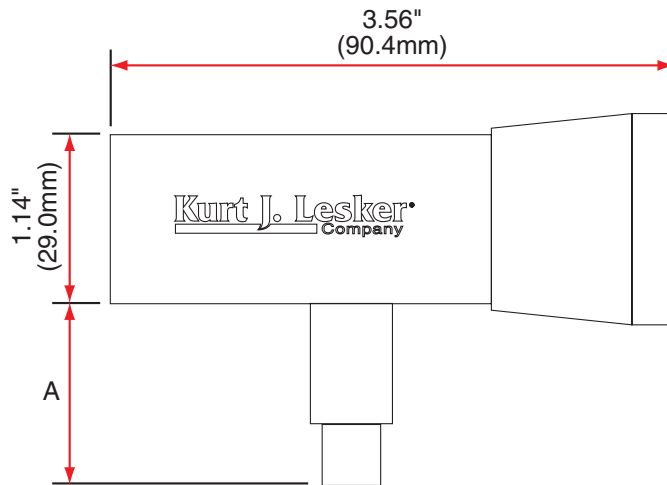
Features

- Convection enhanced Pirani vacuum gauge sensor
- Wide Measurement Range from 10^{-4} Torr to 1000 Torr
- A single vacuum gauge can monitor your vacuum system pumpdown and venting
- Low cost plug-compatible drop-in replacement gauge for Granville-Phillips[®] Convectron[®] gauges
- Performance identical to existing Convectron[®] gauges, except robust design withstands more abuse, offering longer warranty
- Significant savings for you - no changes to your system - use your existing Convectron[®] controllers, cables, and modules

Benefits

- Temperature compensation placed around the outside of the vacuum gauge tube. Eliminates unnecessary parts and welds, significantly increasing the reliability, providing optimal vacuum measurement while reducing cost
- Less susceptible to mechanical shock and vibration
- Reduced internal volume and significant reduction of internal surface area resulting in faster pump-down and less outgassing
- A fine mesh screen in the gauge inlet port helps prevent particulate contamination from entering the gauge
- The gauge is shielded against RF interference
- Wider measuring range than traditional thermocouple vacuum gauges from 10^{-4} Torr to above atmosphere so you can monitor your entire pump-down and vent cycle
- More accurate than a thermocouple gauge, especially at lower pressures

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Fitting	Dimension A
1/8" NPT Male - 1/2" Tube	1.00" (25.4 mm)
NW16KF	1.30" (33.0 mm)
NW25KF	1.30" (33.0 mm)
NW40KF	1.30" (33.0 mm)
1 1/3" Mini-Conflat®	1.08" (27.4 mm)
2 3/4" Conflat®	1.47" (37.3 mm)
1/4" Cajon® 4VCR®	1.86" (47.2 mm)
1/2" Cajon® 8VCR®	1.75" (44.5 mm)

Dimensions Approximate

Specifications

Measurement Range	1.0 X 10 ⁻⁴ To 1000 Torr 1.3 X 10 ⁻⁴ To 1333 mbar 1.3 X 10 ⁻² Pa To 133 Kpa
Resolution	1 X 10 ⁻⁴ Torr, 1.3 X 10 ⁻⁴ mbar, 1 X 10 ⁻² Pa
Temperature - Operating	0 To 50° C
Temperature - Bakeout	150° C Max, Non-Operating, With Cable Or Electronics Removed
Humidity	0 To 95% Relative Humidity, Non-Condensing
Mounting Orientation	Horizontal Recommended
Materials Exposed To Vacuum	Gold-Plated Tungsten, 304 & 316 Stainless Steel, Glass, Nickel, Teflon®
Internal Volume	1.589 in ³ (26 cm ³)
Internal Surface Area	9.25 in ² (59.7 cm ²)
Leak Integrity	< 1X10 ⁻⁹ atm cc/sec He
Weight	3 oz (85 g)
RF/EMI Protection	CE Compliant
Environmental	RoHS compliant

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