

MINI- CONVECTION ENHANCED PIRANI GAUGES

275i Series Gauge

Kurt J. Lesker
Company

VACUUM MART
DIVISION

Features

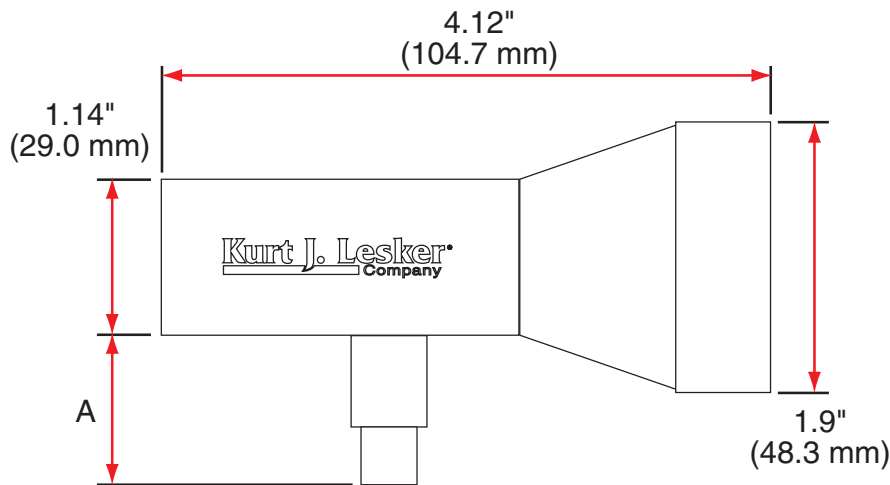
- Convection enhanced Pirani vacuum gauge module with on-board controller
- Wide measurement range 10^{-4} to 1000 Torr
- Models available with measurement unit & display in Torr/mTorr or Bar/mBar
- Includes built-in digital display, set-point relay, analog output
- Small Foot-Print
- Low cost, plug-compatible direct drop-in replacement for the most basic Granville-Phillips® Mini-Convectron® models

Benefits

- Improved mechanical strength results in a highly robust vacuum gauge 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
- Fine mesh screen in the gauge inlet port helps prevent particulate contamination from entering the gauge
- 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
- Convection Enhanced Pirani gauge is more accurate than a thermocouple gauge, especially at lower pressures
- Can also directly replace the most basic Granville-Phillips® Mini-Convectron® modules, at significantly lower cost

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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 (Signal)	1 X 10 ⁻⁴ To 1000 Torr / 1.3 X 10 ⁻⁴ To 1333 Mbar / 1 X 10 ⁻² Pa To 133 kPa
Display	3 Digit Led (3 Digits From 999 Torr To 10.0 mTorr), (2 Digit Led From 9.9 mTorr To 1.0 mTorr), (1 Digit Led From 0.9 mTorr To 0.1 mTorr)
Materials Exposed To Gases	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)
Weight	4.8 oz (136 g)
Housing (Electronics)	Molded Plastic
Operating Temperature	0 To +40° C
Storage Temperature	-40 To +70° C
Bakeout Temperature	+70° C Max
Humidity	0 To 95% Relative Humidity, Non-Condensing
Mounting Position	Horizontal Recommended
Analog Output	1) Log-Linear 1 To 8 Vdc , 1V/Decade, Or 2) Non-Linear Analog S-Curve 0.375 To 5.659 Vdc
Input Power	12 To 28 VDC, 2W, Protected Against Power Reversal and Transient Over-Voltages
Setpoint Relay	One, Single-Pole Double-Throw Relay (SPDT), 1A At 30 Vdc Resistive, Or ac Non-Inductive
Connector	9-Pin D-Sub Male
RF/EMI Protection	CE Compliant
Environmental	RoHS compliant

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