

MINI- CONVECTION ENHANCED PIRANI GAUGES

300 Series Gauge



Kurt J. Lesker[®]
Company

VACUUM MART[™]
DIVISION

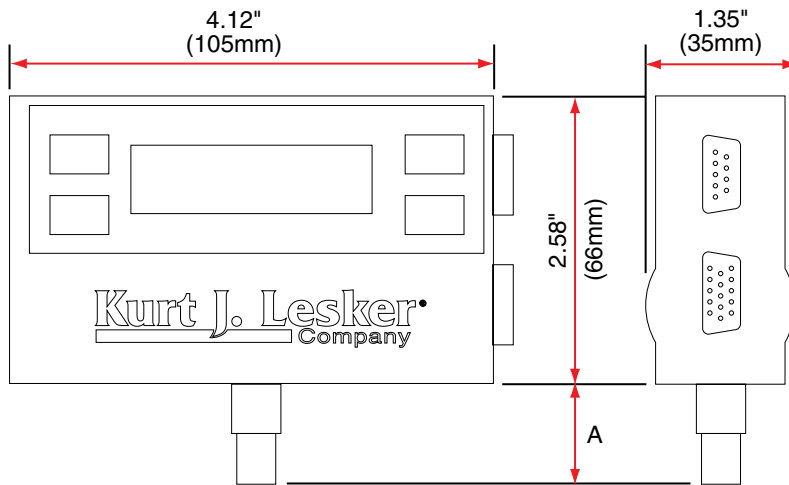
Features

- Convection enhanced Pirani vacuum gauge module with on-board controller
- Wide measurement range 10^{-4} to 1000 Torr
- Includes built-in digital display, two set-point relays, user-selectable analog outputs, and RS232/485 interfaces
- Low cost, plug-compatible direct drop-in replacement for the Granville-Phillips[®] Mini-Convectron[®] models.

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
- Non-linear and linear or log-linear analog outputs, RS232/485 interface, and two setpoint relays
- The 9-pin D-sub and 15 pin D-sub connectors have the same pinouts and signals as the corresponding Mini-Convectrons[®].

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Fitting	Dimension A
1/8" NPT Male - 1/2" Tube	0.86" (21.8 mm)
NW16KF	1.16" (29.5 mm)
NW25KF	1.16" (29.5 mm)
NW40KF	1.16" (29.5 mm)
1 1/3" Mini-Conflat®	1.34" (34.0 mm)
2 3/4" Conflat®	1.34" (34.0 mm)
1/4" Cajon® 4VCR®	1.72" (43.7 mm)
1/2" Cajon® 8VCR®	1.61" (40.9 mm)

Dimensions Approximate

Specifications

Measurement Range (Signal)	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
Display	OLED, 4 Digits, User-Selectable Torr, mbar, Or Pa, (4 Digits From 1100 Torr To 1000 Torr), (3 Digits From 999 Torr To 10.0 mTorr), (2 Digits From 9.9 mTorr To 1.0 mTorr), (1 Digit 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	12 oz (340 g)
Housing (Electronics)	Aluminum Extrusion
Operating Temperature	0 To +40° C
Storage Temperature	-40 To +70° C
Bakeout Temperature	150° C Max (Gauge Only - Electronics Removed)
Humidity	0 To 95% Relative Humidity, Non-Condensing
Mounting Position	Horizontal Recommended
Analog Outputs	1A) Non-Linear S-Curve 0.375 To 5.659 Vdc 1B) Linear 0 To 10 Vdc - User Scalable, Or 2) Log-Linear 1 To 8 Vdc, 1V/Decade
Serial Communications	RS485 / RS232 - ASCII Protocol
Input Power	12 To 28 VDC, 2W, Protected Against Power Reversal and Transient Over-Voltages
Setpoint Relays	Two, Single-Pole Double-Throw Relays (SPDT), 1A At 30 Vdc Resistive, Or Ac Non-Inductive
Connectors	9-Pin D-Sub Male And 15-Pin High-Density D-Sub Male
RF/EMI Protection	CE Compliant
Environmental	RoHS compliant

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Kurt J. Lesker
Company

www.lesker.com

Kurt J. Lesker Company
United States
412.387.9200
800.245.1656
salesus@lesker.com

Kurt J. Lesker Canada Inc.
Canada
416.588.2610
800.465.2476
salescan@lesker.com

Kurt J. Lesker Company Ltd.
Europe
+44 (0) 1424 458100
saleseu@lesker.com

Kurt Lesker (Shanghai) Trading Company
科特·莱思科(上海)商贸有限公司
Asia
+86 21 50115900
saleschina@lesker.com

