WIDE-RANGE GAUGES

KJLC 392 Series

Kurt J. Lesker® Company

VACUUM MART™ DIVISION

Features

- The first Modular Ionization Vacuum Gauge module capable of operating two Convection Gauges
- Wide measurement range from 1 x 10^{-9} Torr to atmosphere
- Includes extremely bright, crisp OLED digital display, 3 set-point relays, 3 analog outputs, and RS485 interface
- Service and research display screens provide valuable data and ease of use

Benefits

- Low Cost of Ownership: Significant cost reduction in controller, space, cabling and sensor replacement
- The electrometer auto zeroes to ensure that readings are not subject to temperature drift. This eliminates the need for unnecessary and expensive circuitry which further reduces the cost
- The display screen can show all three measurements on the same screen or display them sequentially. Service screens can monitor filament operation. Error messages will be displayed for all fault conditions
- The operation of the gauge including degas, filament on/off and emission current is set by the front panel push buttons, digital inputs or RS485 commands
- No rack space required
- Sensor assembly can be easily replaced in the field by simply removing four socket head cap screws
- Dual yttria coated filaments are offered for use with inert gases such as air, N2, argon, etc. Optional dual tungsten filaments are available for use with gases not compatible with yttria filaments such as those that contain chlorine, fluorine, etc.

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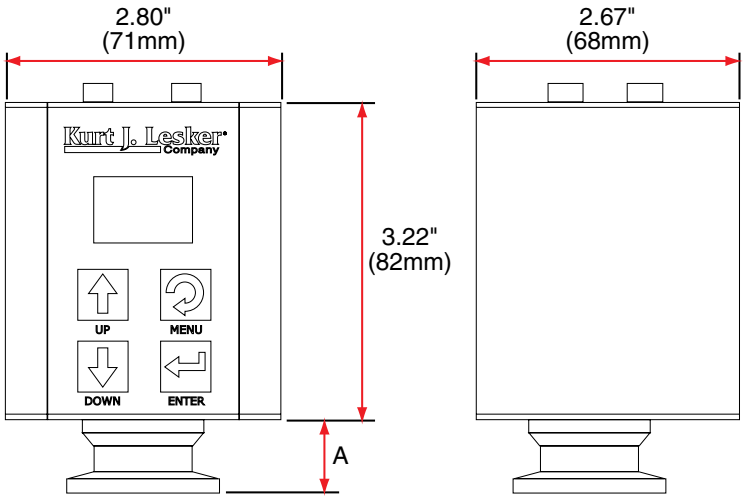

Fitting	Dimension A
NW16KF	1.45" (37mm)
NW25KF	1.45" (37mm)
NW40KF	1.45" (37mm)
1⅓" Mini CF	1.85" (47 mm)
2¾" Conflat®	1.70" (43 mm)

Specifications

Dimensions Approximate

Measurement Range Ionization Convection Used As A Wide Range Gauge	1.0 X 10^{-9} To 5 X 10^{-2} Torr / 1.3 X 10^{-9} To 6.7 X 10^{-2} Mbar / 1.3 X 10^{-7} To 6.7 Pa 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 1.0 X 10^{-9} To 1000 Torr / 1.3 X 10^{-9} To 1333 Mbar / 1.3 X 10^{-7} Pa To 133 Kpa
Display	OLED Graphical Display, 3 Digits Plus 2 Digits Exponent, Bright Yellow
Functionality	Ionization Gauge Can Operate Up To 2 Convection Gauges
Materials Exposed To Gases	Dual Filaments: Yttria Coated Iridium Or Optional Tungsten Ion Collector: Tungsten Grid: Tantalum Others: 316/304 SS, Glass, Nickel
Sensitivity	Factory Pre-Set. Also User Adjustable Between 2 To 99.
X-Ray Limit	< 5 $X10^{-10}$
Emission Current	100 uA, 4 mA
Degas	3 Watts E-Beam
Overpressure Protection	Gauge Turns Off At Factory Default Setting Of 5 X 10^{-2} Torr
Internal Gauge Volume	1.0 in^3 (16.4 cm^3)
Operating Temperature	0 To + 40° C
Bakeout Temperature	200° C (Sensor Only - Electronics Removed)
Humidity	0 To 95% RH Non-Condensing
Weight	0.6 Lbs (0.27 Kg) With NW25 KF Flange
Mounting Orientation	Any
Serial Communications	RS485 - CRC Protocol
Analog Outputs (3 Total) Ionization Gauge Convection Vacuum Gauges 1 & 2	One Log-Linear 0 To 9 Vdc, 1 V/Decade Or One Log-Linear 0.5 To 7 Vdc, 0.5 V/Decade When Used As A Wide Range Gauge With One Convection Gauge Two Log-Linear 1 To 8 Vdc, 1 V/Decade Or Non-Linear 0.375 To 5.659 Vdc
Setpoint Relays (3 Total)	Three Single-Pole, Double-Throw (SPDT), 1A At 30 Vdc Resistive, Or AC Non-Inductive
Status Outputs	Degas & Filament On/Off Status Are Determined By Display Messages, Via Open Collector Transistor Or RS485 Communication
Input Signal	Degas And Filament On/Off & Emission Current Are Set By Continuity To Ground Using Digital Inputs, RS485 Or Manually Using Front Panel Push Button
Filament Selection	Filament 1 Or 2 Selectable Via Front Panel Push Buttons Or RS485 Commands
Input Power	20 to 28 VDC, 30 W protected against power reversal and transient over-voltages
I/O Connector	(2) 9-Pin D-Sub, (2) Terminal Blocks, (2) Convection Gauge Connectors
Convection Gauge Compatibility	KJLC 275 Tube or Granville Phillips® 275 Convectron®
RF/EMI Protection	CE Compliant
Environmental	RoHS compliant

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