

KJLC[®] Pirani Gauge

ATM to Medium Vacuum Gauge



Kurt J. Lesker[®]
Company

VACUUM MART[™]
DIVISION

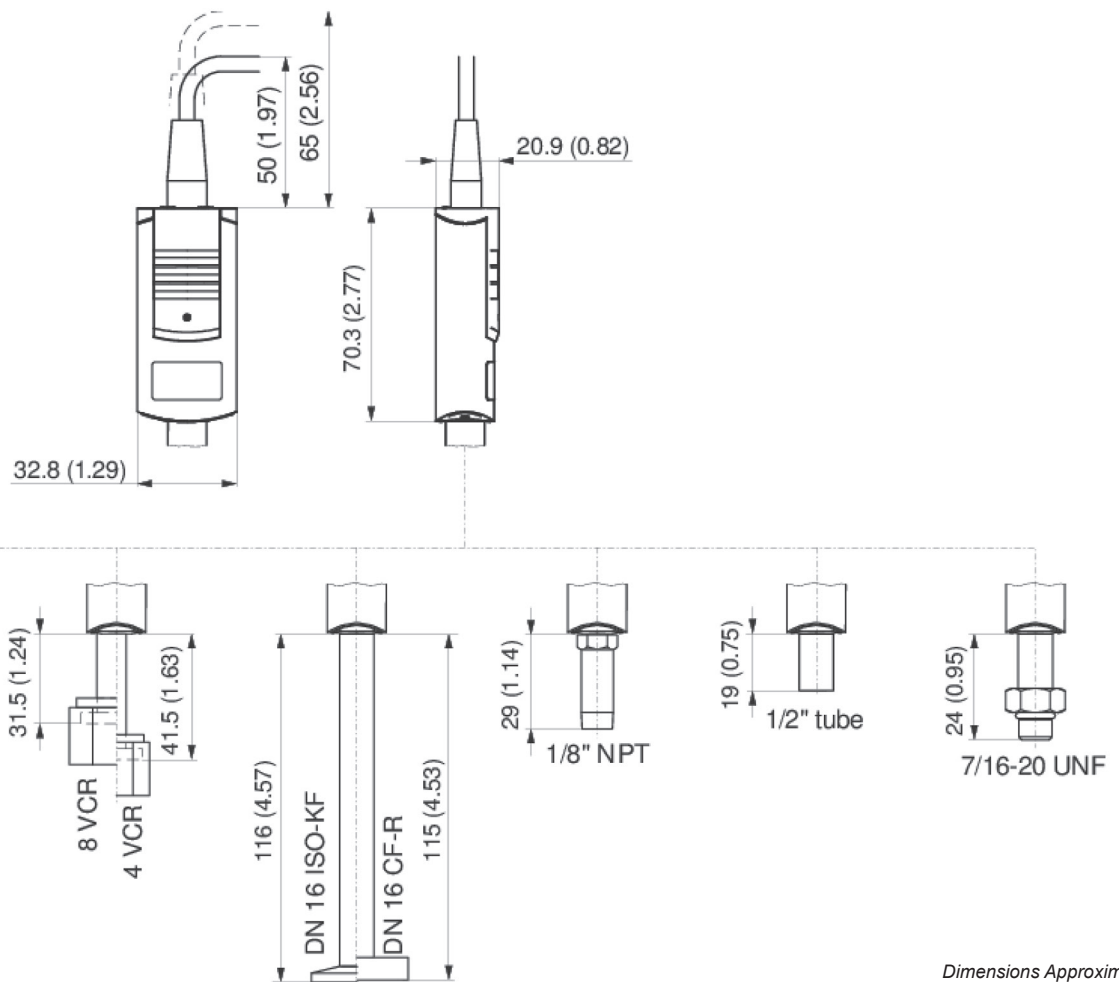
Applications

- Controlling high vacuum ionization gauges
- Fore vacuum pressure monitoring
- Safety circuits in vacuum systems
- General vacuum measurement and control in the fine and rough vacuum range

Features

- Easy push button ATM and HV adjustment
- Space saving rugged design
- Aluminum housing
- Mounts in any orientation
- Stainless steel measuring cell with metal-sealed feedthrough
- Logarithmic signal output for easy integration
- 10 bar absolute overpressure with threaded connections
- 250°C bakeable version
- Nickel filament option for corrosive applications
- Optional setpoints
- RoHS compliance

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Dimensions Approximate

Specifications

Measurement Range	3.75 x 10 ⁻⁴ to 760 Torr (5 x 10 ⁻⁴ to 1000 mbar)
Accuracy (% of Measurement)	3.75 x 10 ⁻⁴ - 7.6 x 10 ⁻⁴ Torr (5 x 10 ⁻⁴ - 1 x 10 ⁻³ mbar), ±50% of reading 7.6 x 10 ⁻⁴ - 75 Torr (1 x 10 ⁻³ - 100 mbar), ±15% of reading 75 - 760 Torr (100 - 1000 mbar), ±50% of reading
Temperature (Operating)	+40 to +140°F (+5 to +60°C)
Temperature (Storage)	+5 to +150°F (-20 to +65°C)
Temperature (Bakeout)	175°F (80°C) in horizontal mounting position; 482°F (250°C) with long tube
Materials Exposed to Vacuum	Nickel Lead, Nickel, Glass, DIN 1.4301, DIN 1.4305, DIN 1.4435
Repeatability (Typical)	±2% of reading
Set-Point Relays	PIR500: None PIR500-S: Two (2)
Relay Response	PIR500-S: 30 V (DC)
Internal Volume	DN16 ISO-K, DN16 CF-R, 7/16-20 UNF: 1.5 cm ³ (0.092 in ³) DN16 ISO-KF & DN16 CF-R Long Tube: 10 cm ³ (0.61 in ³) 1/8" NPT, 4VCR, 8 VCR, 1/2" Tube: 2 cm ³ (0.122 in ³)
Input Power	+14 to +30 V (DC), <2 W
Connections	FCC68/RJ45, 8-pin, Female
Mounting Options	Any
Weight	DN16 ISO-K, 7/16-20 UNF: 0.18 lbs. (0.08 kg.) DN16 CF-R, 4 VCR: 0.22 lbs. (0.1 kg.) 1/8" NPT, 1/2" Tube: 0.15 lbs. (0.07 kg.) 8 VCR, DN16 ISO-KF Long Tube: 0.29 lbs. (0.13 kg.)

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