

KJLC[®] HCG Series Capacitance Diaphragm High Accuracy Vacuum Gauge



Kurt J. Lesker[®]
Company

VACUUM MART[™]
DIVISION

Applications

- Etch, CVD, PVD and other semiconductor production processes
- Chemical and corrosive vacuum processes
- General thin film and vacuum processes requiring gauge protection
- Data storage and display manufacturing equipment
- Reference sensor for monitoring of test instruments according to international standards
- Transfer standard for traceability measurements
- Industrial vacuum equipment

Features

- Lower CoO (cost of ownership), 50% faster warm up, energy efficient low power consumption
- Easy integration, wide variety of full scales, flanges and interfaces, standard with two set points
- Easy one push button or remote signal zero command, zero offset adjustable
- Diagnostic port for quick service and maintenance
- Two year warranty, longer life time with advanced heating concept and gauge protection
- No long term recalibration due to excellent signal stability and repeatability, even in harsh plasma applications

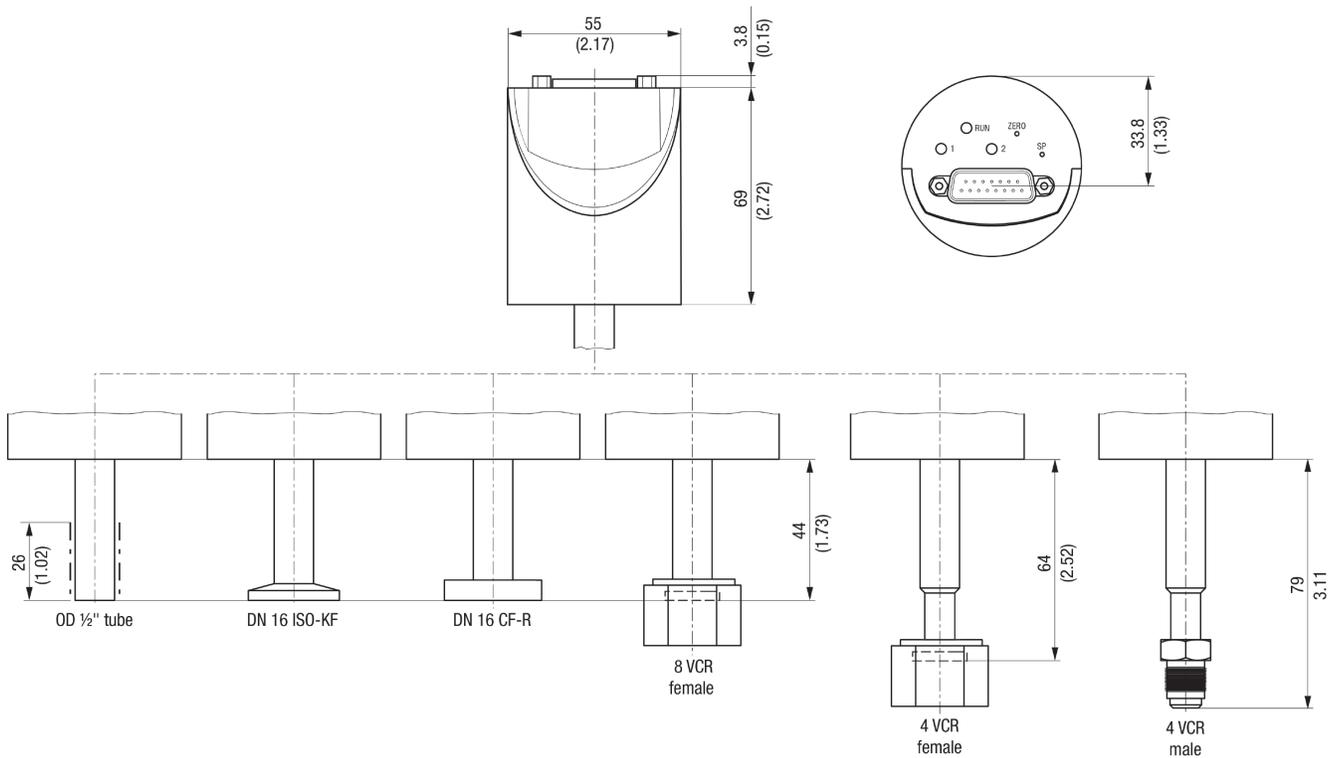
HCG 45°

- Temperature controlled at 45°C for superior signal stability and repeatability

HCG 100°

- Excellent performance for high temperature applications
- Temperature controlled at 100°C for superior performance in demanding applications

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Dimensions Approximate

Specifications

| Model | HCG 45° Heated | HCG 100° Heated |
|-----------------------------|---|---|
| Measurement Range | 0.02% of Full Scale (F.S.) | 0.03% of Full Scale (F.S.) |
| Accuracy (% of Measurement) | 0.15% | 1000 Torr/1100 mbar to 1 torr F.S.: 0.2% 0.5 to 0.1 Torr/mbar F.S.: 0.4% |
| Temperature (Operating) | +50 to +105°F (+10 to +40°C) | +50 to +122°F (+10 to +50°C) |
| Temperature (Storage) | -4 to 150°F (-20 to +65°C) | -40 to 150°F (-40 to +65°C) |
| Temperature (Bakeout) | ≤250°F (≤110°C) | ≤230°F (≤110°C) |
| Materials Exposed to Vacuum | Aluminum oxide ceramic (Al ₂ O ₃), Stainless steel (AISI 316L) | Aluminum oxide ceramic (Al ₂ O ₃), Stainless steel (AISI 316L) |
| Set-Point Relays | 2 (SP1, SP2) | 2 (SP1, SP2) |
| Relay Response | ≤30 V (DC) | ≤30 V (DC) |
| Internal Volume | 4.2 cm ³ (0.26 in ³) | 4.2 cm ³ (0.26 in ³) |
| Input Power | +14 to +30 VDC or ±15 V (±5%), ≤ 12 W during heat up, ≤ 8 W at operating temperature | +14 to +30 VDC or ±15 V (±5%), ≤ 15 W during heat up, ≤ 10 W at operating temperature |
| Connections | D-Sub, 15-pin, Male | D-Sub, 15-pin, Male |
| Compliance & Standards | CE, EN, UL, SEMI, RoHS | CE, EN, UL, SEMI, RoHS |
| Weight | 1/2" Tube: 1.85 lbs. (0.84 kg.) DN16 ISO-KF: 1.88 lbs. (0.85 kg.) DN16 CF-R: 1.93 lbs. (0.88 kg.) 8 VCR®: 1.98 lbs. (0.90 kg.) | 1/2" Tube: 1.85 lbs. (0.84 kg.) DN16 ISO-KF: 1.88 lbs. (0.85 kg.) DN16 CF-R: 1.93 lbs. (0.88 kg.) 8 VCR®: 1.98 lbs. (0.90 kg.) |

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