

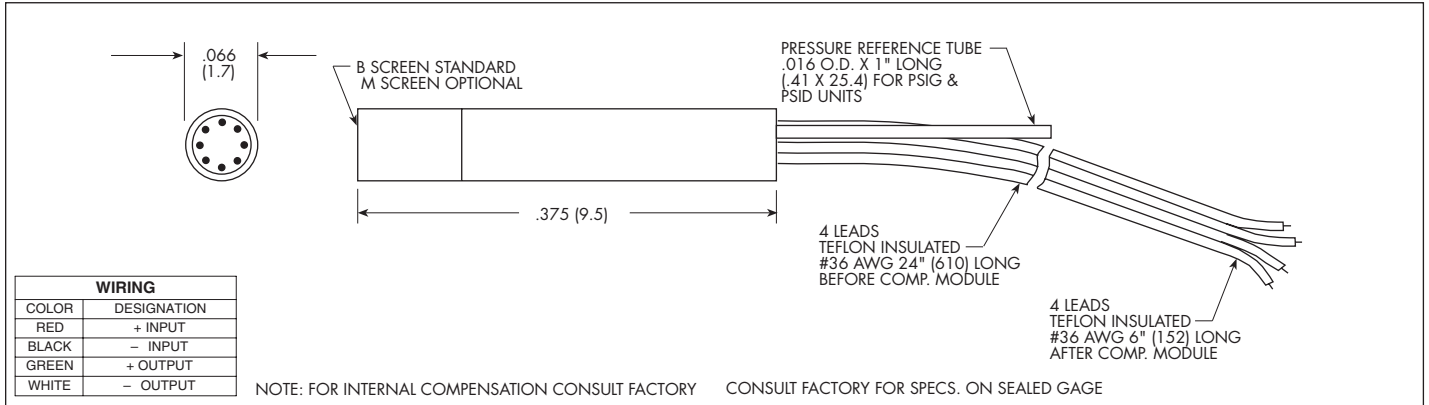
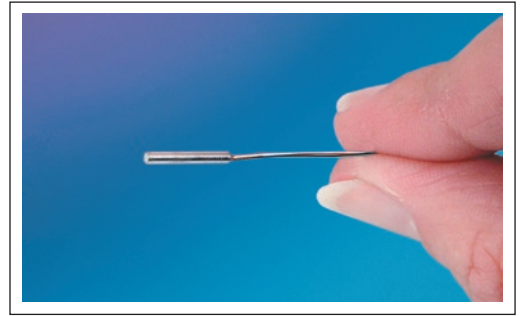


CRYOGENIC ULTRAMINIATURE IS® PRESSURE TRANSDUCER

CCQ-062 SERIES

- Cryogenic Operation -320°F to +250°F (-195.5°C to +120°C)
- Available All Standard Pressure Ranges
- Ideal For Wind Tunnel Applications
- Excellent Static And Dynamic Performance
- Rugged

Similar in design to the XCQ-062 Series, these sensors are specifically intended for use in cryogenic wind tunnels. The extremely good low temperature stability of Kulite IS® Sensors make them ideally suited for this application.



| INPUT Pressure Range | 0.35 5 | 0.7 10 | 1.7 25 | 3.5 50 | 7 100 | 17 250 | 35 500 | 70 BAR 1000 PSI |
|--|--|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|
| Operational Mode | Absolute, Gage, Sealed Gage, Differential | | | | | Absolute, Sealed Gage | | |
| Over Pressure | 2 Times Rated Pressure With No Change In Calibration | | | | | | | |
| Burst Pressure | 3 Times Rated Pressure | | | | | | | |
| Pressure Media | All Nonconductive, Noncorrosive Liquids or Gases | | | | | | | |
| Rated Electrical Excitation | 10 VDC/AC | | | | | | | |
| Maximum Electrical Excitation | 15 VDC/AC | | | | | | | |
| Input Impedance | 1000 Ohms (Min.) | | | | | | | |
| OUTPUT Output Impedance | 1000 Ohms (Nom.) | | | | | | | |
| Full Scale Output (FSO) | 100 mV (Nom.) | | | | | | | |
| Residual Unbalance | ± 5 mV (Typ.) | | | | | | | |
| Combined Non-Linearity, Hysteresis and Repeatability | ± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.) | | | | | | | |
| Resolution | Infinitesimal | | | | | | | |
| Natural Frequency (KHz) (Typ.) | 150 | 175 | 240 | 300 | 380 | 550 | 700 | 1000 |
| Acceleration Sensitivity % FS/g Perpendicular | 1.5x10 ⁻³ | 1.0x10 ⁻³ | 5.0x10 ⁻⁴ | 3.0x10 ⁻⁴ | 1.5x10 ⁻⁴ | 1.0x10 ⁻⁴ | 6.0x10 ⁻⁵ | 2.0x10 ⁻⁵ |
| Transverse | 2.2x10 ⁻⁴ | 1.4x10 ⁻⁴ | 6.0x10 ⁻⁵ | 4.0x10 ⁻⁵ | 2.0x10 ⁻⁵ | 9.0x10 ⁻⁶ | 6.0x10 ⁻⁶ | 2.0x10 ⁻⁶ |
| Insulation Resistance | 100 Megohm Min. @ 50 VDC | | | | | | | |
| ENVIRONMENTAL Operating Temperature Range | -320°F to +250°F (-195.5°C to +120°C) | | | | | | | |
| Compensated Temperature Range | -320°F to +100°F (-195.5°C to +38°C) | | | | | | | |
| Thermal Zero Shift | ± 1% FS/100°F (Typ.) | | | | | | | |
| Thermal Sensitivity Shift | ± 1% /100°F (Typ.) | | | | | | | |
| Steady Acceleration | 10,000g. (Max.) | | | | | | | |
| Linear Vibration | 10-2,000 Hz Sine, 100g. (Max.) | | | | | | | |
| PHYSICAL Electrical Connection | 4 Leads 36 AWG 30" Long | | | | | | | |
| Weight | .2 Gram (Nom.) Excluding Module and Leads | | | | | | | |
| Pressure Sensing Principle | Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon | | | | | | | |

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.

Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (D)