

Sensor Feedthroughs

Fusite's extensive glass-to-metal (GTM) experience solves the toughest of sensor feedthroughs production and performance challenges, especially in process instrument applications where there is an inert atmosphere or vacuum on one side and wide-ranging high-pressure, high-temperature, or corrosive conditions on the other.

Fusite increases sensor feedthroughs performance with its hermetic sealing capabilities that ensure enduring reliability.

Applications

Fusite hermetic sensor headers, sensor feedthroughs, and multi-pin connectors are used in a variety of process instrument applications including pressure, vacuum, flow, oil and gas, petrochemical, and thermal sensors, as well as other sensor applications.

Customization

Fusite has broad capabilities for developing customized hermetic sensor feedthroughs, headers and connectors, with these options:

- Hermetic sealing to various metals including CRS, stainless steel, high temperature alloys, copper and titanium
- Hermetic sealing of all standard materials brazed assemblies, including components such as tubes and pins
- Specialization in process development with the ability to scale up from manual low-volume assembly to fully automated high-volume production
- Expertise in custom assembly and test fixture designs
- In-house plating: Nickel and gold plating (soft and hard) to customer specifications
- Capability to test hermeticity to 1×10^{-9} std. cc/sec helium

Typical Specifications

- Hermeticity: $< 1 \times 10^{-8}$ std. cc/sec helium
- Insulation resistance: $> 10,000$ megohm @ 500 VDC
- Dielectric voltage: 600 volts @ < 0.5 mA leakage
- Burst Pressure: Up to 25,000 psi, depending on the application
- For any application requiring hermetic signal feedthroughs, electronic packages, or sensor housings, headers, and packaging

