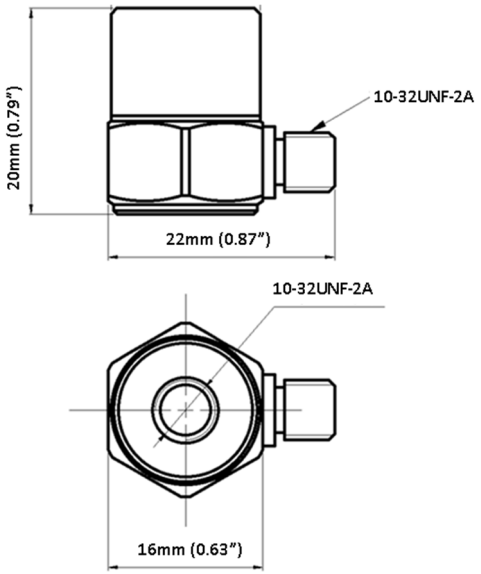
GC50S-T

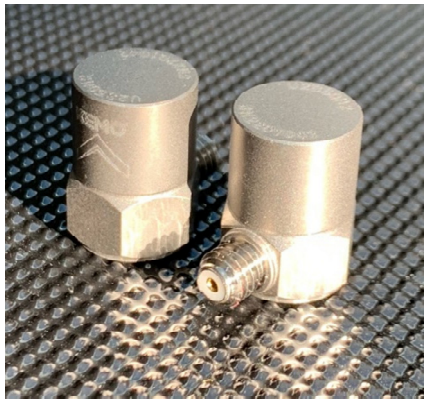
Piezoelectric Charge Output Accelerometer 50pC/g

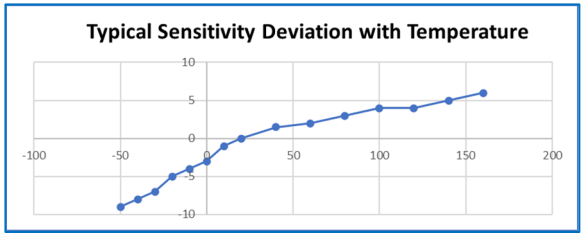
- General Purpose Piezoelectric Accelerometer
- Shear design
- Piezoelectric ceramic PZT-5
- Sensitivity – 50pC/g
- Mass - 22grams
- 10-32UNF side entry connector
- Use with a Low noise cable

The GC50S-T is a general purpose monoaxial piezoelectric accelerometer with a side entry 10/32UNF microdot connector.
The base of the accelerometer has a tapped hole with a 10/32UNF thread for compatibility with many industry applications.
Featuring a shear design PZT-5 sensing element the GC50S-T is supplied with a standard 10/32UNF mounting stud (other studs are available on request).

Specification	Metric	Imperial
Sensitivity	5.10pC/(m/s²)	50pC/g
Measurement Range (pk)	±9800m/s²	±1000g
Frequency Range ±10% (1)	0.5Hz to 6000 Hz	
Resonant Frequency	≥25 kHz	
Non-Linearity	≤1 %	
Transverse Sensitivity	≤5 %	
Overload Limit (Shock)	±49033(m/s²)pk	±5000gpk
Operating Temp. Range	-54 to +150°C	-65 to +302°F
Polarity ↑	Positive	
Magnetic Sensitivity	≤2.5m/s² per Tesla	
Capacitance	700 pF	
Insulation Resistance	>1X10^{11} Ω	
Size (excluding connector)	16(A/F)x20 mm	0.63"(A/F)x0.79"
Weight	22gm	0.77oz
Sensing Geometry	Shear	
Sensing Element Material	PZT-5	
Case Material	Titanium	
Connector Position	Side	
Case sealing	Welded	
Electrical Connection Type	10-32UNF Microdot	
Mounting Thread (tapped base)	10-32UNF	
Mounting Torque	3Nm	26in/lb







It is recommended that the GC50S-T is used with a low noise cable from Kemo's range to reduce triboelectric noise.

1A2-30 – 3m(10ft) 10/32UNF microdot to BNC plug
1A2-50 – 5m(15ft) 10/32/UNF microdot to BNC plug
1A1-30 – 3m(10ft) 10/32UNFmdot to 10/32UNFmdot
1A1-50 – 5m(15ft) 10/32UNFmdot to 10/32UNFmdot

(1) Low frequency response will be dictated by DAQ system

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