# Dual output sensor

## 786T

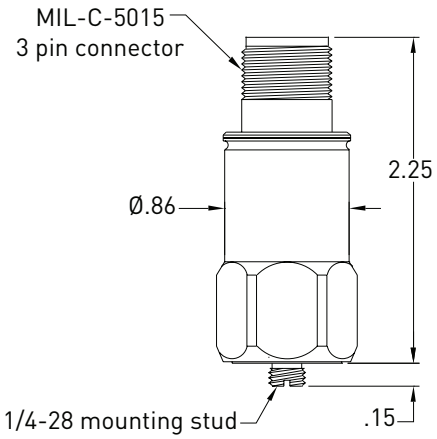
## SPECIFICATIONS

| | | |
|---|---|---|
| **Sensitivity, ±5%, 25°C** | | 100 mV/g |
| **Acceleration range, VDC > 25 V** | | 80 g peak |
| **Amplitude nonlinearity** | | 1% |
| **Frequency response:** | **±5%** | 3 - 5,000 Hz |
| | **±10%** | 1 - 7,000 Hz |
| | **±3 dB** | 0.5 - 12,000 Hz |
| **Resonance frequency** | | 30 kHz |
| **Transverse sensitivity, max** | | 5% of axial |
| **Temperature response:** | **–25°C** | –10% |
| | **+120°C** | +10% |
| **Temperature sensor:** | | |
| **Output sensitivity** | | 10 mV/°C |
| **Measurement range** | | 2° to 120°C |
| **Power requirement:** | | |
| **Voltage source** | | 18 - 30 VDC |
| **Current regulating diode** | | 2 - 10 mA |
| **Electrical noise, equiv. g:** | | |
| **Broadband** | **2.5 Hz to 25 kHz** | 700 µg |
| **Spectral** | **10 Hz** | 10 µg/√Hz |
| | **100 Hz** | 5 µg/√Hz |
| | **1,000 Hz** | 5 µg/√Hz |
| **Output impedance, max** | | 100 Ω |
| **Bias output voltage, nominal** | | 12 VDC |
| **Grounding** | | case isolated, internally shielded |
| **Temperature range** | | –50° to +120°C |
| **Vibration limit** | | 500 g peak |
| **Shock limit** | | 5,000 g peak |
| **Electromagnetic sensitivity, equiv. g, max** | | 70 µg/gauss |
| **Sealing** | | hermetic |
| **Base strain sensitivity, max** | | 0.0002 g/µstrain |
| **Sensing element design** | | PZT, shear |
| **Weight** | | 90 grams |
| **Case material** | | 316L stainless steel |
| **Mounting** | | 1/4-28 UNF tapped hole |
| **Output connector** | | 3 pin, MIL-C-5015 style |
| **Mating connector** | | R6GW |
| **Recommended cabling** | | J9T3A |

**Accessories supplied:** SF6 mounting stud; calibration data (level 2)


### Key features

- Accelerometer with internal temperature sensor
- Certified versions available for use in hazardous areas
- Manufactured in ISO 9001 facility




| Connections | |
|---|---|
| Function | Connector pin |
| accelerometer power / signal | A |
| accelerometer and temp sensor common | B |
| temp sensor signal | C |
| ground / case | shell |

Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.

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