## m/s<sup>2</sup> HT786A

High temperature accelerometer

## SPECIFICATIONS

| Sensitivity, ±5%, 25°C   |   | 100 mV/g   |   |
|--|---|--|---|
| Acceleration range, VDC > 25 V                                 |   | 80 g peak  |   |
| Amplitude nonlinearity   |   | 1%   |   |
| Frequency response:  | ±5%<br>±10%<br>±3 dB                          | 3 - 5,000 Hz<br>1 - 9,000 Hz<br>0.5 - 14,000 Hz            |   |
| Resonance frequency, nominal                                   |   | 30 kHz   |   |
| Transverse sensitivity, ma                                     | x   | 5% of axial  |   |
| Temperature response:  | –25°C<br>+150°C                               | –10%<br>+15%   |   |
| Power requirement:<br>Voltage source<br>Current regulating dic | ode   | 18 - 30 VDC<br>2 - 10 mA                                   |   |
| Electrical noise, equiv. g:<br>Broadband 2.4<br>Spectral       | 5 Hz to 25 kHz<br>10 Hz<br>100 Hz<br>1,000 Hz | <b>25°C</b><br>700 μg<br>10 μg/√Hz<br>5 μg/√Hz<br>5 μg/√Hz | <b>150°C</b><br>1,100 μg<br>14 μg/√Hz<br>7 μg/√Hz<br>7 μg/√Hz |
| Output impedance, max  |   | 100 Ω  |   |
| Bias output voltage:   | +25°C<br>+150°C                               | 13 VDC<br>12 VDC   |   |
| Grounding  |   | case isolated, internally shielded                         |   |
| Temperature range  |   | –50° to +150°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   |   | 2 pin, MIL-C-5015 style                                    |   |

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

## CE

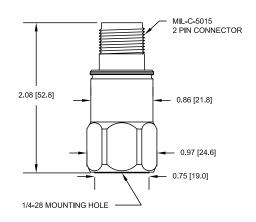
Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

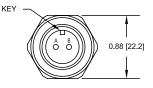




## Key features

- 150°C operation
- Built with extended range components for long-lasting operation
- Manufactured in ISO 9001 facility





| Connections  |               |
|--------------|---------------|
| Function     | Connector pin |
| power/signal | A             |
| common       | В             |
| ground       | shell         |

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Germany/Austria/SwitzerlandBeneluxFranceSwedenUSA/CanadaOther countriesinfo@althen.desales@althen.nlinfo@althensensors.frinfo@althensensors.seinfo@althensensors.cominfo@althensensors.com