



MODELS

HT602D01, HT622B01, HT623C01  
HT624B01, HT625B01, HT628F01

## HIGH TEMPERATURE ICP<sup>®</sup> ACCELEROMETERS

- Capable of withstanding continuous temperatures of 325 °F (162 °C) without decay in performance.
- Monitor machinery vibration in high temperature applications without the need for external charge amplifiers and/or other electronics.
- Shear mode element to withstand thermal transients and base bending.
- Hermetically-welded stainless steel housing to stand up to use in harsh environments.
- Multiple versions to satisfy a wide variety of application requirements.
  - Top or side exit options available for flexibility in cable orientation
  - Quartz or ceramic element options available for environments with or without large temperature fluctuations.



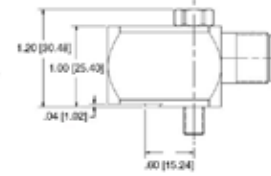
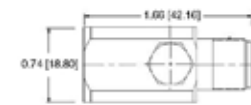
### SURVIVE IN HIGHER TEMPERATURE ENVIRONMENTS UP TO 325 °F

IMI Sensors high temperature accelerometers with internal electronics can withstand higher temperature environments up to 325 °F (162 °F). Often used by predictive maintenance departments, these accelerometers provide critical machinery data that prevents failures and reduces downtime.

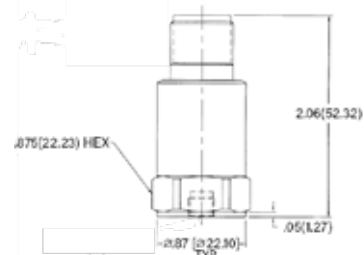
### APPLICATIONS

- |                              |                             |
|------------------------------|-----------------------------|
| ■ Food Processing            | ■ Plastics Manufacturing    |
| ■ Oil & Gas                  | ■ Power Generation          |
| ■ Paper Machines & Conveyors | ■ Steel Rolling & Annealing |

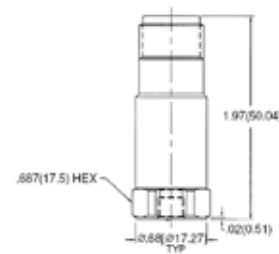
SPECIFICATIONS						
Model	HT602D01	HT622B01	HT623C01	HT624B01	HT625B01	HT628F01
<b>Performance</b>						
Sensitivity	100 mV/g 10.2 mV/(m/s <sup>2</sup> )					
Sensitivity Tolerance	10%	5%				
Measurement Range	± 50 g ± 490 m/s <sup>2</sup>					
Frequency Range (± 5%)	N/A	0.58 to 6,000 Hz	2.4 to 7,000 Hz	2.4 to 2,000 Hz	0.5 to 4,000 Hz	2.4 to 3,000 Hz
Frequency Range (± 10%)	1.7 to 3,000 Hz	0.42 to 10,000 Hz	1.7 to 8,000 Hz	1.7 to 3,000 Hz	0.37 to 6,000 Hz	1.7 to 5,000 Hz
Frequency Range (± 3dB)	0.8 to 8,000 Hz	0.2 to 15,000 Hz	0.8 to 12,000 Hz	0.8 to 5,000 Hz	0.2 to 10,000 Hz	0.8 to 8,000 Hz
Resonant Frequency	25 kHz	30 kHz	35 kHz	18 kHz	23 kHz	18 kHz
Broadband Resolution	150 µg 1,472 µm/s <sup>2</sup>	50 µg 490 µm/s <sup>2</sup>	300 µg 2,943 µm/s <sup>2</sup>	1 mg 9.81 mm/s <sup>2</sup>	200 µg 1,962 µm/s <sup>2</sup>	1 mg 9.81 mm/s <sup>2</sup>
Non-Linearity	± 1 %					
Transverse Sensitivity	± 5 %					
<b>Environmental</b>						
Overload Limit (Shock)	5,000 g pk 49,050 m/s <sup>2</sup>	5,000 m/s <sup>2</sup> pk 49,050 m/s <sup>2</sup>	5,000 g pk 49,050 m/s <sup>2</sup>	1,000 g pk 981 m/s <sup>2</sup> pk	2,000 g pk 19,620 m/s <sup>2</sup> pk	1,000 g pk 981 m/s <sup>2</sup> pk
Temperature Range	-65 to +325 °F -54 to +162 °C					
Enclosure Rating	IP68					
<b>Electrical</b>						
Settling Time	≤ 2.0 sec	≤ 5.0 sec	≤ 2.0 sec	≤ 3.0 sec	≤ 8.0 sec	≤ 3.0 sec
Discharge Time Constant	≥ 0.2 sec	≥ 0.8 sec	≥ 0.2 sec	≥ 0.2 sec	≥ 0.1 sec	≥ 0.2 sec
Excitation Voltage	18 to 28 VDC					
Constant Current Excitation	2 to 20 mA			2 to 10 mA		
Output Impedance	< 150 ohm	< 100 ohm	< 100 ohm	< 500 ohm	< 250 ohm	< 500 ohm
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	8 to 15 VDC	8 to 12 VDC	8 to 15 VDC	8 to 12 VDC
Spectral Noise (10 Hz)	9.0 µg/√Hz	4.0 µg/√Hz	20.0 µg/√Hz	50.0 µg/√Hz	10.0 µg/√Hz	50.0 µg/√Hz
Spectral Noise (100 Hz)	4.0 µg/√Hz	0.8 µg/√Hz	7.0 µg/√Hz	20.0 µg/√Hz	6.0 µg/√Hz	20.0 µg/√Hz
Spectral Noise (1 kHz)	2.0 µg/√Hz	0.4 µg/√Hz	3.0 µg/√Hz	6.0 µg/√Hz	1.5 µg/√Hz	6.0 µg/√Hz
Electrical Isolation (Case)	> 10 <sup>8</sup> ohm					
<b>Physical</b>						
Sensing Element	Ceramic		Quartz	Ceramic	Quartz	
Sensing Geometry	Shear					
Housing Material	Stainless Steel					
Sealing	Welded Hermetic					
Mounting Thread	1/4-28 Male	1/4-28 Female	1/4-28 Female	1/4-28 Male	1/4-28 Male	1/4-28 Female
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 N-m					
Electrical Connector	2-Pin MIL-C-5015					
Electrical Connector Position	Side	Top	Top	Side	Side	Top
Weight	5.4 oz 153 g	3.3 oz 93 g	1.8 oz 51 g	4.2 oz 120 g	5.1 oz 145 g	3.3 oz 93 g



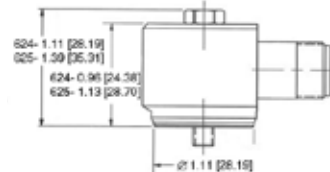
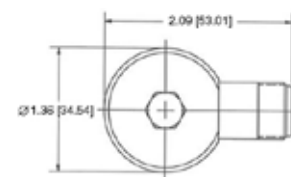
HT602D01



HT622B01 & HT628F01



HT623C01



HT624B01 & HT625B01



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IMI Sensors, a division of PCB Piezotronics, Inc. manufactures industrial vibration monitoring instrumentation, such as accelerometers, vibration transmitters and switches that feature rugged stainless steel housings and survive in harsh environments like paper and steel mills, mines, gas turbines, water treatment facilities and power plants. Integrating with portable analyzers and PLC's, IMI instrumentation helps maintenance departments reduce downtime and protect critical machinery. Visit IMI Sensors at [www.pcb.com](http://www.pcb.com). PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at [www.mts.com](http://www.mts.com).

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IMI-VIB-HighTemp/ICP-0119



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