

# AMT/10HR.200 Triaxial High Resolution **MEMS DC Response Accelerometer** ±10g range, 200mV/g sensitivity



The AMT range of accelerometers are Triaxial MEMS (micro electro mechanical system) DC response voltage output devices for testing at low frequency vibration measurement from DC (0Hz) and above. They are Triaxial (measuring in 3 directions simultaneously) variable capacitance design and are available with a 2m integral cable fitted with a 7pin connector to suit the DJB DCM-03 MEMS signal conditioning unit or alternatively as bare wires.

Ideally suited to low frequency vibration applications including low level vibration where high sensitivity is required.

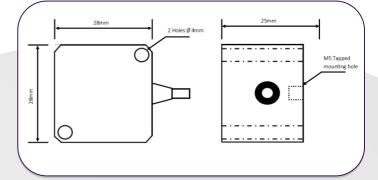
Due to their ability to measure DC response they can also be used to measure constant gravity application.

The AMT/10HR.200 is a high resolution version and has a range of ±10g and a sensitivity of 200mV/g, we recommend using with DJB's MEMS signal conditioner the DCM-03

## Features:

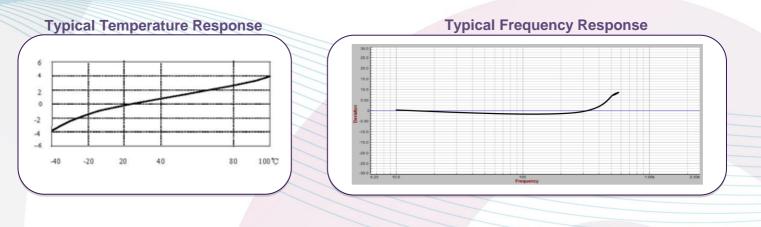
- Operational frequency range DC to 400Hz •
- Integral cable with 7 pin connector or pigtails.
- DJB signal conditioner model DCM-03 available as an option
- **Differential Capacitance operation**
- Compact form and low mass
- Constant gravity measurement

# AMT/10HR.200



#### Applications:

- Auto/Aero structural body surveys
- Constant gravity measurements
- General vibration measurement
- Seismic vibration measurement
- Crash testing



Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes.

**DJB** Instruments (UK) Ltd Finchley Avenue, Mildenhall, Suffolk IP28 7BG

Tel +44 (0)1638 712 288 Email sales@djbinstruments.com Web www.djbinstruments.com

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A UK company with UK-based manufacturing, assembly and calibration in-house.



AMT/10HR.200 Triaxial MEMS DC Response Accelerometer ±10g range, 200mV/g sensitivity



	Metric	Imperial
Sensitivity (20°C)	20.39mV/(m/s <sup>2</sup> )±10%	200mV/g±10%
Measurement Range	±98m/s² pk	±10g pk
Transverse sensitivity	≤5%	
Frequency Range (±5%)	DC to 400 Hz	
Frequency Range (±10%)	DC to 500Hz	
Mounted Resonance Frequency	5,000 Hz	
Temperature Range	-40 to +85°C	-40 to +185°F
Temperature Sensitivity	0.1 mV/°C	
Shock limit (No Supply)	34323m/s <sup>2</sup>	±3,500g
Power Supply	+6 to +15 VDC	
Operating Current	≤5mA	
Offset Voltage	2.5±0.1VDC	
Noise(100Hz)	< 0.14mVrms	
Resolution	0.5mg (rms)	
Output impedance	< 100 Ω	
Weight (no cable)	40grams	1.41oz
Case material	Hard Anodized Aluminum	
Case sealing	Epoxy Resin	
Mounting	2 x Ø4mm holes or M5 tapped base	2 x Ø0.16inch holes or M5 tapped base
Integral Output Cable	2m	6.5ft
Cable Exit	Side	
Cable connector	7 pin connector (optional pigtails)	
Size	28 x 28 x 25mm	1.1 x 1.1 x 0.98 inches
IP rating	IP65	

### **Options:**

- DCM-03 3 channel MEMS signal conditioning unit.
- Pigtail cable terminations

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