Measurement Specialties brings more than twenty years experience in the design and manufacture of accelerometers and vibration sensors based on our proprietary Micro-ElectroMechanical System (MEMS), bonded gauge and piezoelectric ceramic/film technologies.

Voltage mode piezoelectric is the most popular accelerometer design due to its high level output and its wide bandwidth. We offer voltage mode accelerometers in the traditional 3-wire or 2-wire (IEPE) configurations. Charge mode piezoelectric accelerometers are designed for measuring shock and vibration in high temperature environments. In addition to its high temperature operating capability when used with a high quality charge amplifier, a charge mode accelerometer offers its users unmatched dynamic range scalability. To measure motion (velocity, displacement) accurately, an accelerometer with DC response is required. Incorporating state-of-the-art MEMS technologies and the latest analog and digital ASIC's, Measurement Specialties' DC accelerometers offer the best-inclass performance and exceptional value.





MEMS DC Accelerometers

Embedded

Uses patented piezoresistive silicon die technology with high over-range protection and broad frequency response.

	THE	THE	S 🔄	See 1		-
	3022	3052	3031	3038	EGHS-M	3255A
Package	Pins or Pads	Pins or Pads	SMD	SMD	SMD	SMD
Туре	Board Level	Board Level	Board Level	Board Level	Board Level	Board Level
F.S.Range (g)	±2, 5, 10, 20, 50, 100, 200	±2, 5, 10, 20, 50, 100	±50, 100	±50, 100, 200, 500, 2000, 6000	±30K, 60K	±25, 50, 100, 250, 500
Unique Features	- mV output - Gas damping - Pin or pad option	- Temperature compensated - Gas damping - Pin or pad option	- Miniature DC response - Gas damping - Low power consumption	- Hermetically sealed - High over-range protection - Gas damping	- Low power - Hermetically Sealed - >200kHz resonant frequency	- Self test enabled - Gas damping - Bi-directional mounting
Accuracy	±0.5% Non-linearity	±0.5% Non-linearity	±0.5% Non-linearity	±0.5% Non-linearity	±2.0% Non-linearity	±1.0% Non-linearity
Operating Temp	-40°C to 125°C	-40°C to 125°C	-40°C to 125°C	-54°C to 125°C	-55°C to 125°C	-40°C to 125°C
Dimensions (mm)	22.86 x 15.24 x 5.33	22.86 x 15.24 x 5.33	7.62 x 7.62 x 3.18	7.62 x 7.62 x 3.3	6.35 x 6.35 x 1.78	13.46 x 7.62 x 3.81
Typical Apps	Vibration/shock monitoring, tilt applications, motion control, impact testing	Vibration/shock monitoring, tilt applications, motion control, impact testing	Vibration/shock monitoring systems, motion control, impact testing	Vibration/shock monitoring, embedded systems, shock testing, safe & arm	Impact and shock testing, fuzing, safe and arming	Vibration/shock monitoring, aerospace testing, impact testing, transportation

Piezoelectric Accelerometers

Embedded Single Axis

Uses piezo-electric technology with broad frequency response for harsh applications.

	T Daniel
	805/805M1
Package	TO-5
Туре	Adhesive Mount
F.S.Range (g)	±50, ±500 / ±20, 200
Unique Features	 Hermetically Sealed Case Grounded Desigr Bandwidth to 12kHz
Accuracy	±1% Non-linearity
Operating Temp	-50°C to 100°C
Dimensions (mm)	8.9 x 10.16
Typical Apps	Machine monitoring, data loggers, permanent structures



815/815M1

TO-5

- Adhesive Mount
- ±50, ±500 / ±20, 200
- Hermetically Sealed
- Case Grounded Design - Bandwidth to 10kHz
- ±1% Non-linearity
- -50°C to 100°C
- 8.9 x 10.16
- Machine monitoring data loggers, permanent structures



LDTC Family

- Piezo Film elements with or without mass, and pins
- Cantilever beam with vertical or horizontal pins
- ±10 (typical)

Very low cost
High sensitivity (1V/g)
Ultra-low power (self generating)

± 20% (typical) -40°C to 70°C

- 19.05 x 6.35 x 6.35
- Wake-up switch, load imbalance, antitheft devices, impact sensing, vital signs monitoring

Embedded Triaxial



832/832M1 SMD

Board Mount

- Board Mount
- ±25, 50, 100, 200, 500
- Low CostHermetically SealedPiezo-Ceramic
- ±2% Non-linearity
- -20°C to 80°C/-40°C to 125°C
- 18.8 x 14.22 x 4.32
- Data logging, asset monitoring, impact monitoring



834/834M1

SMD

Board Mount

- ±2000, 6000
- Low Cost
- Hermetically Sealed - Piezo-Ceramic
- ±2% Non-linearity
- -20°C to 80°C/-40°C to 125°C
- 18.8 x 14.22 x 4.32

Data logging, asset monitoring, impact monitoring

