High-Temperature Accelerometers
PIEZOELECTRIC SENSORS FOR DYNAMIC MEASUREMENTS

FEATURES:
+500°F (+260°C) operation
5 pC/g
38 grams
Mighty Mouse 3-pin connector
(800 series)
Through-hole mount (#8 screw)
Hermetically sealed
Case isolated
Stainless steel construction
Charge mode

BENEFITS:
Differential output
360° connector orientation
Excellent temperature stability
Low profile
High mechanical isolation

TYPICAL APPLICATIONS:
Aircraft vibration monitoring
Engine vibration monitoring
High performance engine analyzers

FEATURES:
+500°F (+260°C) operation
1 pC/g
1 gram
Mighty Mouse 3-pin connector
(800 series)
Through-hole mount (#8 screw)
Hermetically sealed
Case isolated
Stainless steel construction
Charge mode

BENEFITS:
Miniature design
Minimal noise
Lightweight
Portable cable
Electrical isolation
High natural frequency

TYPICAL APPLICATIONS:
Environmental Stress Screening (ESS)
Mechanical shock testing
PC board vibration measurement
Product stress testing
General purpose high-temperature vibration measurements

FEATURES:
+500°F (+260°C) operation
60 grams
(3) 10-32 connectors
2-bolt mount
Stainless steel construction
Hermetically sealed
Charge mode

BENEFITS:
Triaxial design
High charge output
Small footprint

TYPICAL APPLICATIONS:
Industrial vibration monitoring
Automotive vibration measurements
General purpose high-temperature triaxial vibration monitoring

FEATURES:
10-32 to 10-32
Standard and custom lengths available
For use up to +900°F (+482°C)

BENEFITS:
Differential
Through-Hole
Accelerometer
Miniature Teardrop Isolated Accelerometer
Triaxial Accelerometer

Cable Assemblies

FEATURES:
10-32 to 10-32
Standard and custom lengths available

BENEFITS:
Low-Noise Cable Assembly
Hardline Cable Assembly

FEATURES:
For use up to +400°F (+204°C)
10-32 to 10-32
15-32 to 10-32
18-32 to 10-32
Standard and custom lengths available

BENEFITS:
Low-Noise Cable
Assembly
Hardline Cable
Assembly

Trusted Expertise.
The team at Dytran Instruments has more than 30 years of experience in the successful design and manufacture of high-temperature piezoelectric sensing technologies, both IEPE and charge mode types, to support a variety of demanding customer applications and program requirements. Dytran carefully monitors each aspect of our in-house manufacturing processes, from the choice of sensing elements and housings, to connectors, soldering and cables, to ensure precision measurement accuracy of finished products within extreme environments. All models are subjected to rigorous in-house quality assurance testing procedures and regular design reviews for continuous product improvements.

Typical applications for individual models of Dytran high-temperature accelerometers can be found within the charts presented in this brochure. In addition to the models listed here, Dytran also offers custom manufacturing of high-temperature accelerometers to meet specific requirements.

For assistance in evaluating your application requirements, contact a member of the Dytran Technical Sales team at sales@dytran.com.

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AS9100 certified • A2LA accredited to ISO 17025 • ISO 9001 certified
FEATURES:
- High-Temperature Operation
- 10-32 thread mounting screw
- Stainless steel construction
- Hermetically sealed

Specifications:
- 0.2 grams
- 2 to 5 mV/g
- +350°F (+177°C) operation

Benefits:
- Extended frequency response
- Ultra low-profile
- Minimal mass loading effects

Typical Applications:
- Vibration monitoring
- General purpose high-temperature vibration measurements where space is at a premium
- Mechanical shock testing
- Mechanical shock monitoring
- Vibration control

Miniature Triaxial Accelerometers

FEATURES:
- Through-Hole Installation
- 10-32 thread mounting screw
- Stainless steel construction
- Hermetically sealed

Specifications:
- 0.6 grams
- 1.6 pC/g
- +350°F (+177°C) operation

Benefits:
- Small size
- High resonant frequency
- Hardline cable assembly

Typical Applications:
- High-temperature low-g measurement
- Engine test cell vibration monitoring
- High-temperature industrial monitoring
- General purpose high-temperature vibration monitoring

Miniature Threading Accelerometers

FEATURES:
- Through-Hole Installation
- 10-32 thread mounting screw
- Stainless steel construction
- Hermetically sealed

Specifications:
- 10 pC/g
- +500°F (+260°C) operation

Benefits:
- Extended frequency response
- Ultra high-temperature general purpose vibration measurements

Typical Applications:
- Vibration monitoring
- General purpose vibration measurements
- Mechanical shock testing
- Mechanical shock monitoring

Ultra Miniature Accelerometers

FEATURES:
- Through-Hole Installation
- 5-40 mounting hole
- Stainless steel construction
- Hermetically sealed

Specifications:
- 5.7 grams
- 1 pC/g
- +900°F (+482°C) operation

Benefits:
- Small size
- High resonant frequency
- Hardline cable assembly

Typical Applications:
- Vibration monitoring
- General purpose vibration measurements
- Mechanical shock testing
- Mechanical shock monitoring

Miniature ESS Accelerometers

FEATURES:
- Through-Hole Installation
- 10-32 thread mounting screw
- Stainless steel construction
- Minimal mass loading effects

Specifications:
- 42 grams
- 3.5 pC/g (3092C)
- +600°F (+316°C) operation (3088C)

Benefits:
- Small size
- High resonant frequency
- Hardline cable assembly

Typical Applications:
- Vibration monitoring
- General purpose vibration measurements
- Mechanical shock testing
- Mechanical shock monitoring

Ultra Miniature Accelerometers
High-Temperature Accelerometers

PIEZOELECTRIC SENSORS FOR DYNAMIC MEASUREMENTS

FEATURES:
- High-Temperature operation
- 92°C (308°F) operation
- 157°C (315°F) operation
- Stainless steel construction

BENEFITS:
- Light weight
- Minimal mass loading effects
- Self-generating device
- Continuous high-temperature vibration monitoring
- Mates with Dytran 6894A
- Balanced differential output
- High natural frequency
- Low charge output
- Integral hardline cable for ultra lightweight design
- High-temperature operation

TYPICAL APPLICATIONS:
- Engine vibration measurements
- Vibration monitoring in industrial environments
- Microphone test applications
- Microphone test applications
- Automotive engine / exhaust analysis
- Industrial turbine vibration measurements
- Turbine engine vibration monitoring
- General purpose high-temperature vibration monitoring
- Turbo engine vibration monitoring

FEATURES:
- ±500 mV/g operation
- ±100 mV/g operation
- ±200 mV/g operation
- ±50 mV/g operation
- ±100 mV/g operation
- ±200 mV/g operation
- Self-generating device
- Continuous high-temperature vibration monitoring
- High-temperature turbine engine measurements
- Industry standard for ESS (control)
- High-temperature operation
- Minimal mass loading effects
- Microphone test applications

BENEFITS:
- Light weight
- Minimal mass loading effects
- Self-generating device
- Continuous high-temperature vibration monitoring
- Mates with Dytran 6894A
- Balanced differential output
- High natural frequency
- Low charge output
- Integral hardline cable for ultra lightweight design
- High-temperature operation

TYPICAL APPLICATIONS:
- Engine vibration measurements
- Vibration monitoring in industrial environments
- Microphone test applications
- Microphone test applications
- Automotive engine / exhaust analysis
- Industrial turbine vibration measurements
- Turbine engine vibration monitoring
- General purpose high-temperature vibration monitoring
- Turbo engine vibration monitoring

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PIEZOELECTRIC SENSORS FOR DYNAMIC MEASUREMENTS

FEATURES:
- High-Temperature operation
- 92°C (308°F) operation
- 157°C (315°F) operation
- Stainless steel construction

BENEFITS:
- Light weight
- Minimal mass loading effects
- Self-generating device
- Continuous high-temperature vibration monitoring
- Mates with Dytran 6894A
- Balanced differential output
- High natural frequency
- Low charge output
- Integral hardline cable for ultra lightweight design
- High-temperature operation

TYPICAL APPLICATIONS:
- Engine vibration measurements
- Vibration monitoring in industrial environments
- Microphone test applications
- Microphone test applications
- Automotive engine / exhaust analysis
- Industrial turbine vibration measurements
- Turbine engine vibration monitoring
- General purpose high-temperature vibration monitoring
- Turbo engine vibration monitoring

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**High-Temperature Accelerometers**

**FEATURES:**
- 10-32 thread mounting screw
- 2.5 grams
- IEPE
- Stainless steel construction
- Hermetically sealed

**BENEFITS:**
- Base isolated
- 10-32 mounting stud
- 10-32 connector
- 10 mV/g
- +325°F (+163°C) operation

**APPLICATIONS:**
- General purpose vibration measurements
- Environmental Stress Screening (ESS)
- Automotive applications
- Aircraft vibration monitoring

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**Miniature Triaxial Accelerometer**

**FEATURES:**
- 3311A / 3133A2 / 3030B5H / 3023AH
- Accelerometer
- Miniature
- Through-Hole IEPE

**BENEFITS:**
- Industry standard for ESS (control)
- Small size
- Robust design
- Small footprint
- Lightweight

**APPLICATIONS:**
- Environmental Stress Screening (ESS)
- Automotive testing
- Environmental Stress Screening (ESS)
- Automotive testing

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**Veonox Measurement System**

**FEATURES:**
- Through-Hole IEPE Accelerometer
- 3316C / 3235C / 3225E / 3221C
- Ultrasonic sensors
- Through-Hole IEPE

**BENEFITS:**
- Minimal mass loading effects
- Stainless steel construction
- Hermetically sealed

**APPLICATIONS:**
- General purpose vibration measurements
- Environmental Stress Screening (ESS)
- Turbine engine vibration monitoring

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**Piezoelectric NM Accelerometer**

**FEATURES:**
- 3218C / 3088C / 3092C / 3224A2
- Accelerometer
- Measurement
- Vibration
- Charge Mode

**BENEFITS:**
- Industry standard tri-bolt mount
- Increased Mean Time Before Failure (MTBF)
- Continuous high-temperature operation
- Minimal mass loading effects

**APPLICATIONS:**
- General purpose vibration measurements
- Environmental Stress Screening (ESS)
- Turbine engine vibration monitoring

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High-Temperature Accelerometers

PIEZOELECTRIC SENSORS FOR DYNAMIC MEASUREMENTS

FEATURES:
- +500°F (+260°C) operation
- 1 gS
- 1 gram
- Mighty Mouse 3-pin connector
- Through-hole mount (8 screw)
- Hermetically sealed
- Case isolated
- Stainless steel construction
- Charge mode

Benefits:
- Differential output
- 360° connector orientation
- Excellent temperature instability
- Low profile
- High mechanical isolation

Typical Applications:
- Aircraft vibration monitoring
- Engine vibration monitoring
- High performance engine analysis

High-Temperature Accelerometers

PIEZOELECTRIC SENSORS FOR DYNAMIC MEASUREMENTS

FEATURES:
- +500°F (+260°C) operation
- 1 gS
- 1 gram
- Adhesive mount
- Titanium construction
- Hermetically sealed
- Base isolated
- Charge mode

Benefits:
- Miniature design
- Minimal mass loading effects
- Lightweight
- High natural frequency
- Excellent temperature stability
- Low profile
- High electrical isolation

Typical Applications:
- Aerospace testing
- Medical shock testing
- PC board vibration measurements
- Environmental Stress Screening (ESS)
- Product screening testing
- Component isolation
- High temperature
- General purpose vibration measurement

Low-Noise Cable Assembly

Hardwire Cable Assembly

Differential Through Hole Accelerometer

Miniature Teardrop Isolated Accelerometer

Triaxial Accelerometer

Cable Assemblies

FEATURES:
- 10-32 to 10-32
- Standard and custom lengths available
- 10-32 to 10-32
- Standard and custom lengths available

High-Temperature Accelerometers

PIEZOELECTRIC SENSORS FOR DYNAMIC MEASUREMENTS

FEATURES:
- +500°F (+260°C) operation
- 1 gS
- 1 gram
- Adhesive mount
- Titanium construction
- Hermetically sealed
- Base isolated
- Charge mode

Benefits:
- Triaxial design
- High charge output
- Small footprint

Typical Applications:
- Industrial vibration monitoring
- Automotive vibration measurements
- General purpose high-temperature triaxial vibration monitoring

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