ACCELEROMETERS FOR SHOCK & VIBRATION MEASUREMENTS

MINIATURE, LIGHTWEIGHT ICP® SHOCK ACCELEROMETERS
MODEL 352A04
- Sensitivity: 1 mV/g
- Measurement Range: ±5000 g pk
- Overload Shock Limit: ±10000 g pk

MINIATURE, LIGHTWEIGHT ICP® SHOCK ACCELEROMETERS
MODEL 352A05
- Sensitivity: 0.25 mV/g
- Measurement Range: ±20000 g pk
- Overload Shock Limit: ±30000 g pk

MINIATURE ICP® TEARDROP ACCELEROMETER WITH TEDS
MODEL 352A03
- Sensitivity: 10 mV/g
- Measurement Range: ±5000 g pk
- Overload Shock Limit: ±10000 g pk

MINIATURE LIGHTWEIGHT TRIAXIAL ICP® ACCELEROMETER
MODEL 356A04
- Sensitivity: 1 mV/g
- Measurement Range: ±5000 g pk
- Frequency Range: 1 to 10000 Hz

MINIATURE LIGHTWEIGHT TRIAXIAL ICP® ACCELEROMETER
MODEL 356A05
- Sensitivity: 0.25 mV/g
- Measurement Range: ±20000 g pk
- Frequency Range: 1 to 10000 Hz

ICP® TRIAXIAL, LIGHTWEIGHT, MINIATURE ACCELEROMETER
MODEL J356A03/NC
- Sensitivity: 10 mV/g
- Measurement Range: ±5000 g pk
- Electrical Connector: Integral Cable
**ICP® TRIAXIAL SHOCK ACCELEROMETER**
MODEL 350B43

- Sensitivity: 0.5 mV/g
- Measurement Range: ±10000 g pk
- Frequency Range: 0.4 to 10000 Hz
- Mechanical and Electrical Isolation

**ICP® TRIAXIAL SHOCK ACCELEROMETER**
MODEL 350B44

- Sensitivity: 1.0 mV/g
- Measurement Range: ±5000 g pk
- Frequency Range: 0.4 to 10000 Hz
- Mechanical and Electrical Isolation

**SINGLE AXIS MEMS DC ACCELEROMETER**
MODELS 3711F112G, 3711F1110G, 3711F1150G, 3711F11100G, 3711F11200G

- Measurement Ranges: ±2 / ±10 / ±30 / ±50 / ±100 / ±200 g pk
- Temperature Range: (Operating) -65 to +250 °F (-54.0 to +121 °C)
- Electrical Connector: 4-Pin

**TRIAXIAL AXIS MEMS DC ACCELEROMETER**
MODELS 3713F112G, 3713F1110G, 3713F1150G, 3713F11100G, 3713F11200G

- Measurement Ranges: ±2 / ±10 / ±30 / ±50 / ±100 / ±200 g pk
- Temperature Range: (Operating) -65 to +250 °F (-54.0 to +121 °C)
- Electrical Connector: 9-Pin

**DIFFERENTIAL MEMS DC ACCELEROMETER**

- Measurement Ranges: ±2 / ±10 / ±30 / ±50 / ±100 / ±200 g pk
- Temperature Range: (Operating) -65 to +250 °F (-54.0 to +121 °C)
- Electrical Connector: Integral Cable
CONNECTIONS & CABLE ASSEMBLIES FOR RESEARCH & DEVELOPMENT

WATER SUBMERSIBLE 1/4-28 4-SOCKET CONNECTOR
RB CONNECTOR
- IP68 rated submersible, dust tight
- -76 to 325 °F (-60 to 163 °C)
- Stock Product

WATER SUBMERSIBLE CABLE ASSEMBLY
MODEL 078WXX – 5, 10, 20, 30, 50 FT STOCK LENGTHS
- IP68 rated submersible, sensor end only
- 1/4-28 4-Socket to (3) BNC plugs
- Low noise, shielded 4 conductor, light blue PU jacket

WATER SUBMERSIBLE CABLE ASSEMBLY
MODEL 034WXX – 5, 10, 20, 30, 50 FT STOCK LENGTHS
- IP68 rated submersible, sensor end only
- 1/4-28 4-Socket to (3) BNC plugs
- Low noise, shielded 4 conductor, Blue FEP Jacket

RUGGED CABLE ASSEMBLY FOR ENVIRONMENTAL CHAMBERS
MODEL 098Q10 – 10 FT STOCK LENGTH
- Stainless steel hex nut, precision internal components
- 10-32 coaxial plug (QX) to BNC plug
- Low-noise, stranded coaxial cable, green TFE jacket
MODALLY TUNED® IMPACT HAMMERS WITH FORCE SENSOR, & SIGNAL CONDITIONER

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>TLD086C01</th>
<th>TLD086C02</th>
<th>TLD086C03</th>
<th>TLD086C04</th>
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</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>50 mV/lbf (11.2 mV/N)</td>
<td>10 mV/lbf (2.25 mV/N)</td>
<td>5 mV/lbf (1.10 mV/N)</td>
<td></td>
</tr>
<tr>
<td>Measurement Range</td>
<td>±100 lbf pk (± 444 N pk)</td>
<td>±500 lbf pk (± 2224 N pk)</td>
<td>±1000 lbf pk (±4448 N pk)</td>
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</tr>
<tr>
<td>Hammer Mass</td>
<td>0.23 lb (0.10 kg)</td>
<td>0.34 lb (0.16 kg)</td>
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</tbody>
</table>

DIN RAIL MOUNT ICP® SIGNAL CONDITIONER
MODEL 410C01

- USB & Ethernet Configurable / Signal View
- Broad Frequency Range
- DIN rail mounting with standard 24 VDC power
PRESSURE SENSORS FOR RESEARCH & DEVELOPMENT

**SUBMINIATURE ICP® PRESSURE SENSOR WITH INTEGRAL LEAD WIRES**
MODEL 105C

- Sensitivity: 50 mV/psi (7.3 mV/kPa)
- Measurement Range: (for ±5V output) 100 psi (690 kPa)
- Size (D x L): 0.156 in (0.04 mm) x 0.46 in (11.7 mm)

**WATER COOLED PRESSURE SENSOR WITH REPLACEABLE COOLANT TUBES**
MODEL 124B23

- Sensitivity: 0.5 mV/psi (.073 mV/kPa)
- Measurement Range: 5000 psi (34475 kPa)
- Low Frequency Response: (-5%) 0.001 Hz

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>105C</th>
<th>105C02</th>
<th>105C12</th>
<th>105C22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>50 mV/psi (7.3 mV/kPa)</td>
<td>5.0 mV/psi (0.73 mV/kPa)</td>
<td>1.0 mV/psi (0.145 mV/kPa)</td>
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<tr>
<td>Measurement Range</td>
<td>100 psi (690 kPa)</td>
<td>1000 psi (6895 kPa)</td>
<td>5000 psi (34475 kPa)</td>
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<tr>
<td>Resolution</td>
<td>0.005 psi (0.035 kPa)</td>
<td>0.020 psi (0.140 kPa)</td>
<td>0.100 psi (0.690 kPa)</td>
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<tr>
<td>Resonant Frequency</td>
<td>≥ 250 kHz</td>
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<tr>
<td>Electrical Connection</td>
<td>Integral Cable</td>
<td>5-44 Coaxial Jack</td>
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</tbody>
</table>

**MICRO ICP® PRESSURE SENSOR FOR HIGH FREQUENCY VELOCITY AND TIME OF ARRIVAL MEASUREMENT**
MODEL 132B38

- Sensitivity: 140 mV/psi (20.3 mV/kPa)
- Measurement Range: 50 psi (345 kPa)
- Frequency Range: 11 kHz to 1.0 MHz
MICROPHONES FOR ACOUSTIC MEASUREMENTS

HAZARDOUS LOCATIONS & EXPLOSIVE ATMOSPHERES COMPLIANT ICP® CONDENSER MICROPHONE
MODEL EX378B02
- ATEX, IECEx, ETL approved and IEC-61094 compliant
- M1 below ground approved outside North America
- Frequency Range: 3.75 Hz to 20 kHz

RUGGED GRID CAP FOR 0.5 INCH (12 MM) DIAMETER HIGH SENSITIVITY MICROPHONES
MODEL 079A52
- Extends the life of the delicate microphone
- Use on any 1/2" high sensitivity microphone
- Justifiable low cost accessory free-field, random incidence or pressure microphones

1/2" LOW NOISE FREE-FIELD ICP® MICROPHONE SYSTEM WITH TEDS
MODEL 378A04
- Prepolarized (industry’s first)
- Frequency Range: 10 Hz to 16 kHz
- Less than 6.5 dBA noise floor

PHANTOM POWERED PREAMPLIFIER FOR TEST & MEASUREMENT MICROPHONES
MODEL 426A14
- 12V, 24V, & 48V compatible
- Works with 1/4" and 1/2" prepolarized microphones
- Uses audio XLR connector
SPINNING WHEEL INTEGRATED FORCE TRANSDUCERS
SWIFT® EVO

SWIFT EVO 10 MOTORCYCLE/ATV
- Fx & Fz up to 4400 lbs (20 kN)
- Mx & Mz up to 2235 lbs-ft (3 kN-m)
- Hysteresis (force) 0.2 (0.2) %FS (Typical)

SWIFT EVO 20 SMALL CAR
- Fx & Fz up to 6744 lbs (30 kN)
- Mx & Mz up to 4425 lbs-ft (6 kN-m)
- Hysteresis (force) 0.2 (0.1) %FS (Typical)

SWIFT EVO 30 PASSENGER CAR
- Fx & Fz up to 11240 lbs (50 kN)
- Mx & Mz up to 6638 lbs-ft (9 kN-m)
- Hysteresis (force) 0.2 (0.1) %FS (Typical)

SWIFT EVO 40 LIGHT TRUCK
- Fx & Fz up to 13489 lbs (60 kN)
- Mx & Mz up to 11063 lbs-ft (15 kN-m)
- Hysteresis (force) 0.2 (0.1) %FS (Typical)
**SWIFT EVO 45 MEDIUM TRUCK**
- $F_x$ & $F_z$ up to 26977 lbs (120 kN)
- $M_x$ & $M_z$ up to 20652 lbs-ft (28 kN-m)
- Hysteresis (force) 0.2 (0.2) %FS (Typical)

**SWIFT EVO 50 HEAVY TRUCK**
- $F_x$ & $F_z$ up to 49458 lbs (220 kN)
- $M_x$ & $M_z$ up to 36878 lbs-ft (50 kN-m)
- Hysteresis (force) 0.5 (0.25) %FS (Typical)

**SWIFT EVO 60 AGRICULTURAL VEHICLE**
- $F_x$ & $F_z$ up to 56202 lbs (250 kN)
- $M_x$ & $M_z$ up to 55317 lbs-ft (75 kN-m)
- Hysteresis (force) ≤ 1 %FS

**EVO TRANSDUCER INTERFACE**
- DC powered, single wheel interface
- Transducer Electronic Data Sheet (TEDS) compatible
- New Graphical User Interface for easy set-up
SENSORS FOR POWER GENERATION EQUIPMENT

900 °F (482 ºC)
SINGLE-ENDED CHARGE OUTPUT ACCELEROMETER
WITH UHT-12™ ELEMENT
MODEL 357A63

- Sensitivity: 0.53 pC/g
- Measurement Range: ±5000 g pk (±49050 m/s² pk)
- Frequency Range: Up to 10 kHz

1200 °F (649 ºC)
SINGLE-ENDED CHARGE OUTPUT ACCELEROMETER
WITH UHT-12™ ELEMENT
MODEL 357A64

- Sensitivity: 1.15 pC/g
- Measurement Range: ±1000 g pk (±9800 m/s² pk)
- Frequency Range: Up to 10 kHz

1200 °F (649 ºC)
SINGLE-ENDED CHARGE OUTPUT ACCELEROMETER
WITH UHT-12™ ELEMENT
MODEL 357M168

- Sensitivity: 1.15 pC/g
- Measurement Range: ±1000 g pk (±9800 m/s² pk)
- Frequency Range: Up to 10 kHz
SENSORS FOR MACHINERY HEALTH MONITORING

DIGITAL USB ACCELEROMETER
MODEL 633A01
- Sensitivity: (Channel A) 334566 counts/g (34105 counts/(m/s²))
- Measurement Range: ±20 g pk (±196 m/s² pk)
- Frequency Range: 0.9 to 15000 Hz

SMALL HIGH FREQUENCY TRIAXIAL ICP® ACCELEROMETER
MODEL (EX)639A91
- Sensitivity: 100 mV/g (10.2 mV/(m/s²))
- Frequency Range: 0.5 to 13k Hz
- Extremely small footprint (0.95” x 0.95” excluding the side exit connector)

SWITCH BOXES WITH CONTINUOUS & SWITCHED OUTPUTS
MODELS 691C41 & 691C42
- Switched output connectors:
  - BNC for vibration
  - BNC for temperature
  - MIL connector for vibration and temperature
- Continuous output connectors:
  Terminal blocks
MTS Sensors, a division of MTS Systems Corporation (NASDAQ: MTSC), vastly expanded its range of products and solutions after MTS acquired PCB Piezotronics, Inc. in July, 2016. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corp.; IMI Sensors and Larson Davis are divisions of PCB Piezotronics, Inc.; Accumetrics, Inc. and The Modal Shop, Inc. are subsidiaries of PCB Piezotronics, Inc.