NEW FROM PCB®

PCB PIEZOTRONICS
MTS SYSTEMS CORPORATION

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ACCELEROMETERS FOR SHOCK & VIBRATION MEASUREMENTS

CE

0.17 grams

MINIATURE, LIGHTWEIGHT ICP® SHOCK ACCELEROMETERS

MODEL 352A91

- Sensitivity: 1 mV/g
- Measurement Range: ±5000 g pk
- Overload Shock Limit: ±10000 g pk

CE

0.16 grams

MINIATURE, LIGHTWEIGHT ICP® SHOCK ACCELEROMETERS

MODEL 352A92

- Sensitivity: 0.25 mV/g
- Measurement Range: ±20000 g pk
- Overload Shock Limit: ±30000 g pk

CE

0.90 grams

MINIATURE ICP® TEARDROP ACCELEROMETER WITH TEDS

MODEL 352A59

- Sensitivity: 10 mV/g
- Measurement Range: ±500 g pK
- Overload Shock Limit: ±10000 g pk

CE

0.80 grams

MINIATURE, LIGHTWEIGHT TRIAXIAL ICP® ACCELEROMETER

MODEL 356A04

- Sensitivity: 1 mV/g
- Measurement Range: ±5000 g pk
- Frequency Range: 1 to 10000 Hz

CE

0.80 grams

MINIATURE, LIGHTWEIGHT TRIAXIAL ICP® ACCELEROMETER

MODEL 356A05

- Sensitivity: 0.25 mV/g
- Measurement Range: ±20000 g pk
- Frequency Range: 1 to 10000 Hz

CE

1.20 grams

MINIATURE, LIGHTWEIGHT TRIAXIAL ICP® ACCELEROMETER

MODEL J356A03/NC

- Sensitivity: 10 mV/g
- Measurement Range: ±500 g pk
- Ground Isolated

0.40” TRIAXIAL CUBE ADHESIVE MOUNTING CLIP

MODEL 080A237

- Simplify accelerometer installation & removal
- Typical frequency response 2.5 kHz
- Compatible with PCB 0.40 inch (10.2mm) accelerometers

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, 3711F1130G, 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: ¼-28 4-Pin

TRIAXIAL AXIS MEMS DC ACCELEROMETER

MODELS 3713F112G, 3713F1110G, 3713F1130G, 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

MODELS 3741F122G, 3741F1210G, 3741F1230G, 3741F1250G, 3741F12100G, 3741F12200G

- 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

CONNECTORS & CABLE ASSEMBLIES FOR RESEARCH & DEVELOPMENT

CE

WATER SUBMERSIBLE 1/4-28 4-SOCKET CONNECTOR

RB CONNECTOR

- IP68 rated submersible, dust tight
- -76 to 325 ºF (-60 to 163 ºC)
- Stock Product

CE

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

CE

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, polyurethane jacket

CE

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

CE

CE

SPECIFICATIONS				
Model Number	**TLD086C01**	**TLD086C02**	**TLD086C03**	**TLD086C04**
Sensitivity	50 mV/lbf (11.2 mV/N)		10 mV/lbf (2.25 mV/N)	5 mV/lbf (1.10 mV/N)
Measurement Range	±100 lbf pk (± 444 N pk)		±500 lbf pk (± 2224 N pk)	±1000 lbf pk (±4448 N pk)
Hammer Mass	0.23 lb (0.10 kg)	0.34 lb (0.16 kg)		
TEDS, per IEEE 1451.4	TEDS version 1.0, Template 1 (Transducer Electronic Data Sheet)			

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

CE

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

CE

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

CE

SUBMINIATURE ICP® PRESSURE SENSOR WITH INTEGRAL LEAD WIRES

MODEL 105C

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

CE

SPECIFICATIONS

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

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 1/2” DIAMETER HIGH SENSITIVITY MICROPHONES

MODEL 079A52

- Provides added protection for microphone diaphragm
- Use on any 1/2” high sensitivity microphone
- Justifiable low cost accessory for free-field, random incidence

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

CE

SWIFT EVO 10 MOTORCYCLE/ATV

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

CE

SWIFT EVO 20 SMALL CAR

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

CE

SWIFT EVO 30 PASSENGER CAR

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

CE

SWIFT EVO 40 LIGHT TRUCK

- Fx & Fz up to 60 kN (13489 lbs)
- Mx & Mz up to 15 kN-m (11063 lbs-ft)
- Hysteresis (force) 0.2 (0.1) %FS (Typical)

CE

SWIFT EVO 45 MEDIUM TRUCK

- Fx & Fz up to 120 kN (26977 lbs)
- Mx & Mz up to 28 kN-m (20652 lbs-ft)
- Hysteresis (force) 0.2 (0.2) %FS (Typical)

CE

SWIFT EVO 50 HEAVY TRUCK

- Fx & Fz up to 220 kN (49458 lbs)
- Mx & Mz up to 50 kN-m (36878 lbs-ft)
- Hysteresis (force) 0.5 (0.25) %FS (Typical)

CE

SWIFT EVO 60 AGRICULTURAL VEHICLE

- Fx & Fz up to 250 kN (56202 lbs)
- Mx & Mz up to 75 kN-m (55317 lbs-ft)
- Hysteresis (force) ≤ 1 %FS

CE

SWIFT 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

1200 ºF (649 ºC) SINGLE-ENDED CHARGE OUTPUT ACCELEROMETER WITH UHT-12™ ELEMENT

MODEL 357A64

- Sensitivity: 1.15 pC/g
- Measurement Range: ±1000 g pk
- Frequency Range: Up to 10 kHz

1200 ºF (649 ºC) SINGLE-ENDED CHARGE OUTPUT ACCELEROMETER WITH UHT-12™ ELEMENT

MODEL 357M168

- Sensitivity: 1.15 pC/g
- Measurement Range: ±1000 g pk
- Frequency Range: Up to 10 kHz

900 ºF (482 ºC) CHARGE OUTPUT TRIAXIAL ACCELEROMETERWITH UHT-12™ ELEMENT

MODEL EX356A73

- Sensitivity: 3.2 pC/g
- Measurement Range: ±500 g pk
- Frequency Range: Up to 4 kHz

1200 ºF (649 ºC) SINGLE-ENDED CHARGE OUTPUT ACCELEROMETER WITH UHT-12™ ELEMENT

MODELS EX357E90, 91, 92, 93

- Sensitivity: 5.0 pC/g (90, 91)
  2.3 pC/g (92, 93)
- Measurement Range: ±1000 g pk
- Frequency Range: Up to 3 kHz

1200 ºF (649 ºC) DIFFERENTIAL CHARGE OUTPUT ACCELEROMETER WITH UHT-12™ ELEMENT

MODELS EX357A94, 95

- Sensitivity: 3.3 pC/g
- Measurement Range: ±1000 g pk
- Frequency Range: Up to 3 kHz

DIFFERENTIAL CHARGE AMPLIFIER

MODELS 421B30, 31, 3X

- Sensitivity: Configurable
- Output: Voltage and current
- Maximum Output: ±5 V pk
  or ±5 mA pk

SENSORS FOR MACHINERY HEALTH MONITORING

TABLET NOT INCLUDED

DIGITAL USB ACCELEROMETER

MODEL 633A01

- Sensitivity: (Channel A) 334566 counts/g
- Measurement Range: ±20 g pk
- Frequency Range: 0.9 to 15k Hz

CRYOGENIC, INDUSTRIAL, QUARTZ SHEAR ICP® ACCELEROMETER

MODEL (EX)637A06

- Sensitivity: 25 mV/g
- Measurement Range: ±200 g
- Frequency Range: 4 to 15k Hz

CRYOGENIC, INDUSTRIAL, QUARTZ SHEAR ICP® ACCELEROMETER

MODEL (EX)638A06

- Sensitivity: 25 mV/g
- Measurement Range: ±200 g
- Frequency Range: 4 to 15k Hz

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MTS SENSORS

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.