



FOOD AND BEVERAGE MANUFACTURING

VIBRATION MONITORING

Vibration monitoring should be an integral part of a food and beverage production facility's predictive maintenance program. The use of vibration sensors for early identification of developing equipment faults provides numerous benefits:

- Increase overall equipment effectiveness (OEE)
- Reduce unanticipated equipment downtime and/or failure
- Reduce spare parts inventory costs
- Make more effective use of maintenance staff time



IMI Sensors offers vibration sensors specifically designed to remain installed during the daily washdown/sterilization cycle. Eliminating the need for daily removal and re-installation of sensors saves sanitation staff's time and ensures more consistent data.

- Smooth, corrosion-resistant stainless steel housing and base.
- Resist degradation by wash-down cycle chemical solutions or acidic food products.
- Minimize vulnerability to scrapes dents, and eliminates areas for water and/or particulate build-up.
- Watertight, hermetically-sealed casing with welded seams prevents liquid infiltration.



HIGH SENSITIVITY, LOW-NOISE ICP® ACCELEROMETER KIT

MODELS 601A92 & 507QSXXXBZ

- Sensitivity: ($\pm 20\%$) 500 mV/g (51 mV/(m/s²))
- Measurement Range: ± 10 g (± 98 m/s²)



SMALL ICP® ACCELEROMETER KITS

MODELS 602D91 & 507QSXXXB2 MODELS 603C91 & 507QSXXXBZ

- Sensitivity: ($\pm 10\%$) 100 mV/g (10.2 mV/(m/s²))
- Measurement Range: ± 50 g (± 490 m/s²)



TRIAxIAL ICP® ACCELEROMETER KIT

MODELS (EX)639A91 & 507QSXXXBZ

- Sensitivity: ($\pm 10\%$) 100 mV/g (10.2 mV/(m/s²))
- Measurement Range: ± 50 g (± 490 m/s²)

ICP® ACCELEROMETERS FOR SPECIALTY APPLICATIONS



LOW FREQUENCY ICP® ACCELEROMETER

MODEL 626B02

- Ideal for slow-speed equipment. (ie. coffee bean roasters)
- Sensitivity: ($\pm 5\%$)
500 mV/g (51.0 mV/(m/s²))
- Frequency Range: (± 3 dB) 0.2 to 6,000 Hz (12 to 360000 cpm)
- Measurement Range:
 ± 10 g (98 m/s²)



LOW SENSITIVITY ICP® ACCELEROMETER

MODEL 603C00

- Ideal for high-vibration equipment. (ie. vibration hoppers)
- Sensitivity: ($\pm 20\%$)
10 mV/g (1.02 mV/(m/s²))
- Frequency Range: (± 3 dB) 0.5 to 10000 Hz (30 to 600000 cpm)
- Measurement Range:
 ± 500 g (± 4905 m/s²)



QUARTZ ELEMENT ICP® ACCELEROMETER

MODEL 624B01

- Ideal for thermally-active applications. (ie. conveyors through ovens & freezers)
- Sensitivity: ($\pm 5\%$)
100 mV/g (10.2 mV/(m/s²))
- Frequency Range: (± 3 dB) 0.8 to 10,000 Hz (48 to 600000 cpm)
- Measurement Range:
 ± 50 g (± 490 m/s²)

VIBRATION TRANSMITTERS FOR PROCESS MONITORING



TOP EXIT VIBRATION TRANSMITTER

SERIES 640 | 641 | 645 | 646 |

- Output: 4-20 mA
- Measurement Range: Full-scale value of 0.5, 1.0 or 2.0 ips (640-643) or 5 or 10 g (645-648)



SIDE EXIT VIBRATION TRANSMITTERS

SERIES 642 | 643 | 647 | 648

- Output: 4-20 mA
- Measurement Range: Full-scale value of 0.5, 1.0 or 2.0 ips (640-643) or 5 or 10 g (645-648)



AC VOLTAGE TO 4-20 MA TRANSMITTER

MODEL 682C03

- Use with ICP® accelerometer
- Selectable acceleration, velocity, or displacement scaling
- Field-adjustable low and high pass frequency filtering



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IMI Sensors, a division of PCB Piezotronics, Inc. manufactures industrial vibration monitoring instrumentation, such as accelerometers, vibration transmitters and switches that feature rugged stainless steel housings and survive in harsh environments like paper and steel mills, mines, gas turbines, water treatment facilities and power plants. Integrating with portable analyzers and PLC's, IMI instrumentation helps maintenance departments reduce downtime and protect critical machinery. Visit IMI Sensors at www.pcb.com. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.

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IMI-APP-FOODBEV-0819



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.