



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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