



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)



CERAMIC SHEAR ICP® ACCELEROMETERS W/ OR W/O INTEGRAL POLYURETHANE CABLE

MODELS RTD602D91, RTD602D11

Dual output vibration & Resistance Temperature Detector

Sensitivity ($\pm 10\%$): 100 mV/g
(10.2 mV/(m/s²))

Measurement Range: ± 50 g
(± 490 m/s²)

Single-point ISO 17025 accredited calibration



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: (±5%)
500 mV/g (51.0 mV/(m/s²))

Frequency Range: (±3dB) 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: (±20%)
10 mV/g (1.02 mV/(m/s²))

Frequency Range: (±3dB) 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: (±5%)
100 mV/g (10.2 mV/(m/s²))

Frequency Range: (±3dB) 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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