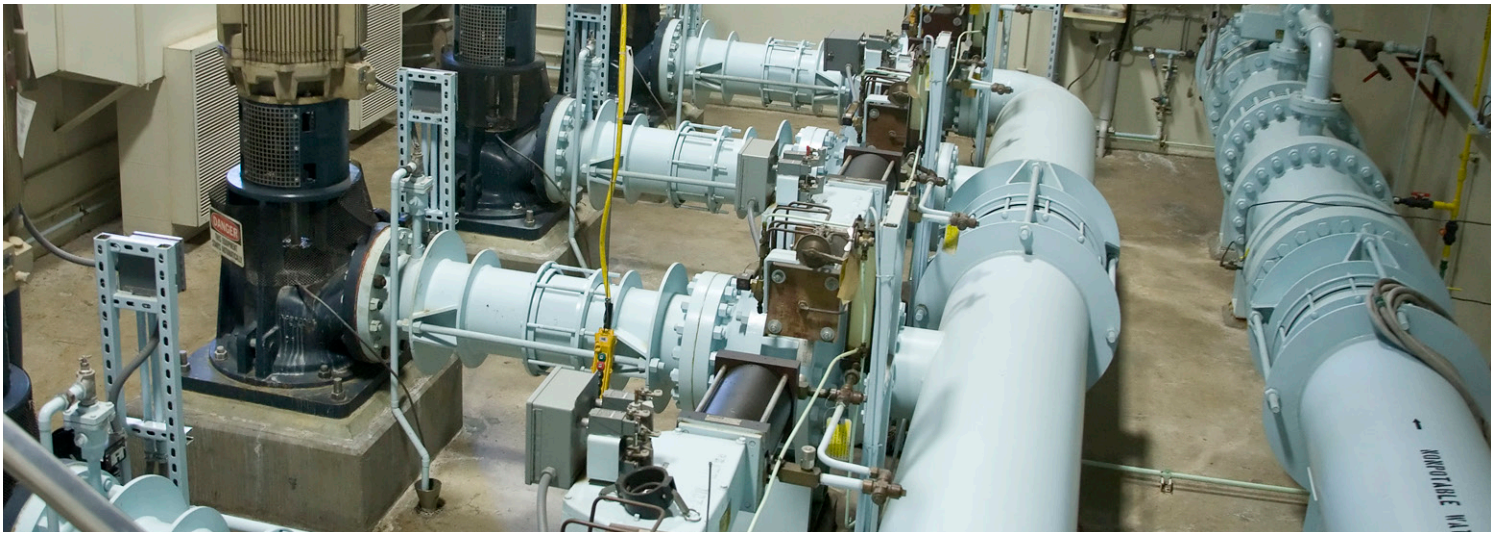


# **WATER & WASTEWATER TREATMENT EQUIPMENT**



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## WATER & WASTEWATER TREATMENT EQUIPMENT

Municipal water authorities oversee a vast range of infrastructure, including wastewater treatment plants, water treatment plants, lift stations, pump stations, storage tanks and miles of sewer/water pipelines. The efficient and uninterrupted operation of the system is essential in order for water authorities to stay in compliance with local and federal drinking water and wastewater discharge/treatment laws.

The infrastructure system includes a variety of rotating assets, including blowers/fans, motors and pumps. Performing vibration analysis on this equipment can detect developing faults early so that they can be addressed before causing catastrophic failure.

- Blowers/Fans- Friction, imbalance, looseness/misalignment
- Motors- Bearing issues, electrical issues, imbalance, looseness/misalignment
- Pumps- Cavitation, imbalance, looseness/misalignment

Many water authorities already utilize a SCADA (supervisory control and data acquisition) system to monitor and control the process. Vibration transmitters with a current output can be easily integrated into that existing system in order to collect and record vibration data. Vibration transmitters output an overall value, which does not require extensive mathematical analysis to interpret and is well suited for the knowledge level of process control generalists within a facility.

For those facilities with vibration analysis capabilities and resources, a wide variety of accelerometers are available that can be used for route-based measurements in conjunction with a third-party handheld data collector or for permanent installations in conjunction with online data acquisition systems.

## VIBRATION TRANSMITTERS

CE



### 4-20 mA OUTPUT SENSOR

SERIES 640/641/642/643

- Peak or RMS velocity
- 0-0.5, 0-1, 0-2 ips measurement ranges available
- Intrinsically safe versions available

CE



### 4-20 mA OUTPUT SENSOR

SERIES 645/646/647/648

- RMS Acceleration
- 0-5, 0-10 g measurement ranges available
- Intrinsically safe versions available

## DIN RAIL VIBRATION TRANSMITTERS

CE



### VIBRATION TRANSMITTER

MODEL 682C03

- Outputs 4-20 mA signals for overall vibration and temperature
- ICP® accelerometer input
- Analog vibration output via front BNC

CE



### BEARING FAULT DETECTOR

MODEL 682C05

- Provide early warning of bearing and gear faults
- ICP® accelerometer input
- Outputs 4-20 mA signals for true peak acceleration and overall vibration

## ICP® ACCELEROMETERS

CE



### THE SWIVELER® ACCELEROMETER

MODEL 607A11

- Waterproof housing, ideal for submersible applications
- Patented 360° swivel mount
- Small footprint and low-profile design
- Intrinsically safe version available

CE



### HIGH-FREQUENCY TRIAXIAL ACCELEROMETER

MODEL 639A91

- Frequency response on all three axes up to 13 kHz ( $\pm 3\text{dB}$ )
- Extremely small footprint
- Intrinsically safe version available





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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](http://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](http://www.mts.com).

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