



PUMPS & SUBMERSIBLE PUMPS

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● Suggested Sensor Placement

ICP® ACCELEROMETERS

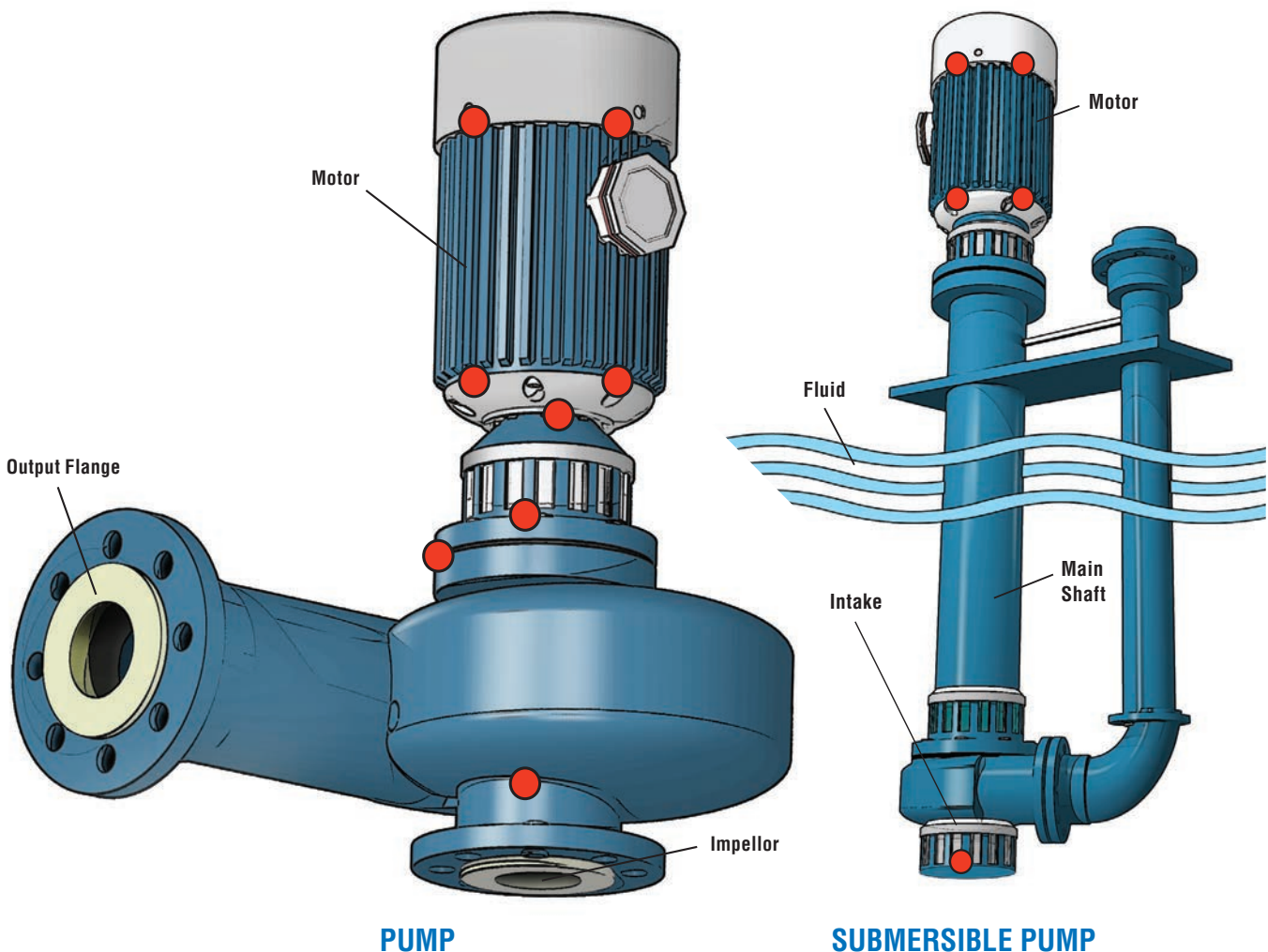
There are many different types of submersible pumps and applications but industrial accelerometers can often help the maintenance professional to diagnose issues with pump operation, such as cavitation, recirculation and resonance.

A good rule of thumb is to select an accelerometer that has a linear high frequency response capability to three times the pump's vane pass frequency (vane pass frequency = # of vanes x RPM). IMI® has a wide range of submersible accelerometers as well as sensors and cabling that will survive in corrosive environments.

VIBRATION TRANSMITTERS

Pump failure can lead to costly unexpected shutdowns and expensive damage to plant processes and equipment. IMI's current output (mA) transmitters offer continuous protection to critical equipment and provide maintenance professionals information between scheduled walk-around data collection.

Transmitters provide an easy and low cost continuous monitoring solution and are directly compatible with PLC, DCS, SCADA and PI systems. External DIN rail transmitters are an excellent solution for customers interested in both predictive maintenance and continuous monitoring.



ICP® ACCELEROMETERS FOR PUMPS & SUBMERSIBLE PUMPS



LOW COST ICP® ACCELEROMETER

MODEL 607A11, 608A11

Ideal for submersible applications

Smallest true industrial
accelerometer on the market

Patented 360° swivel mount design



LOW COST ICP® ACCELEROMETER

MODEL 603C01, 603C11

General purpose, hermetically sealed

IMI's most popular accelerometer

Small installation footprint

M12 connector version available



LOW COST TRIAXIAL ACCELEROMETER

MODEL 604B31, 604B11

General purpose, hermetically
sealed accelerometer

Perfect for permanent mount
application



PRECISION TRIAXIAL ACCELEROMETER

MODEL 629A31, 629A11

5% sensitivity tolerance

Full frequency response



PRECISION TRIAXIAL ACCELEROMETER

MODEL 639A91, 639A11

13 kHz high frequency response
on all three axes

Extremely small footprint
(0.95" x 0.95" excluding the side
exit connector)

4-20 mA SENSORS FOR PUMPS & SUBMERSIBLE PUMPS



4-20 mA OUTPUT TRANSMITTER

SERIES 64X

Multiple ranges available

Peak or RMS, acceleration or velocity

Intrinsically safe version available

24 volt loop-powered



4-20 MA OUTPUT SENSOR, M12 CONNECTOR

MODEL 655A9X, 656A9X

Frequency response up to 2 kHz

Peak or RMS velocity

Small footprint in height and weight

Rated to 105°C



VIBRATION TRANSMITTER

MODEL 682C03

Outputs 4-20 mA signal
proportional to acceleration, velocity,
or displacement

ICP® accelerometer input

Analog vibration output
via front BNC



 **IMI SENSORS**
A PCB DIVISION

3425 Walden Avenue, Depew, NY 14043 USA

pcb.com/imi-sensors | imi@pcb.com | 800 959 4464 | +1 716 684 0003

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