IMI SENSORS
A PCB PIEZOTRONICS DIV.

DUAL OUTPUT VIBRATION SENSORS

- Choice of:
  - ICP® accelerometer with temperature output option (TO)
  - Vibration transmitter with temperature output option (TO)
  - Vibration transmitter with raw vibration output option (RV)
  - Vibration transmitter with raw vibration velocity output option (RVVO)
- Top & side exit as well as integral polyurethane and armored cable versions available.
- Multi-pin connector allows for simple transfer of both output signals.
- Ideal for applications where there is a need for multiple simultaneous sensor measurements without monitoring equipment redundancy.

TYPICAL APPLICATIONS

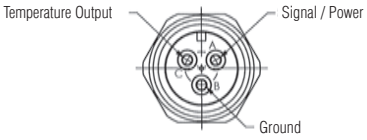
- Monitoring and Protection
- Gearbox Condition Monitoring
- Pump Predictive Maintenance

DESIGNED TO PROVIDE SIMULTANEOUS MONITORING OF TWO DATA POINTS FROM ONE SENSOR

Dual output sensors offer an affordable solution for applications where simultaneous monitoring of two different data points is required without redundancy in monitoring equipment. The provision of the second set of data gives the vibration analyst additional information to assist in the detection and trending of equipment condition and performance in order prevent unscheduled downtime and/or catastrophic equipment failure.

ICP® ACCELEROMETER WITH TEMPERATURE OUTPUT OPTION

Dual output ICP® accelerometers with a temperature output option simultaneously measure vibration and temperature levels. The temperature output is a 0 to 1.2 VDC output scaled from +36 to +250 °F with a 5.56 mV/°F + 32 °F sensitivity. The temperature sensor, located mid-level in the housing and monitoring internal sensor temperature, draws its power from the vibration electronics and can only be read when ICP® power is being applied to the vibration leads. All models have a three-pin connector to allow for easy transfer of both data signals to a multi-channel data acquisition system for further analysis.

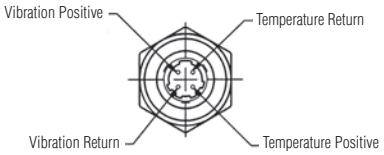


Connection Diagram for 3-Pin Connector

CONNECTION DIAGRAM FOR 4-WIRE PIGTAIL	
Wire Color	**Connection**
RED	Vibration +
BLACK	Ground
GREEN	Ground
WHITE	Temperature +

VIBRATION TRANSMITTER WITH TEMPERATURE OUTPUT OPTION

Dual output vibration transmitters with a temperature output option simultaneously measure vibration and temperature levels. The temperature output is a 4-20 mA signal that has a measurement range of -40 to +257 °F. The temperature sensor is located mid-level in the housing and monitors the internal sensor temperature. The same power supply can be used for both 4-20 mA loops by connecting both positive terminals directly to the power supply. Models without an integral cable have a four-pin connector while models with an integral cable have a four-wire pigtail.

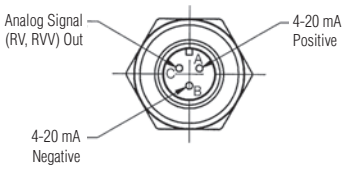


Connection Diagram for 4-Pin Connector

CONNECTION DIAGRAM FOR 4-WIRE PIGTAIL	
Wire Color	**Connection**
RED	Vibration +
BLACK	Vibration -
GREEN	Temperature -
WHITE	Temperature +

VIBRATION TRANSMITTER WITH RAW VIBRATION OR RAW VIBRATION VELOCITY OUTPUT OPTIONS

Dual output vibration transmitters with a raw vibration output option simultaneously output overall vibration (mA) ad raw vibration (V) scaled in acceleration.Dual output vibration transmitters with a raw vibration velocity output option simultaneously output overall vibration (mA) and raw vibration (V) scaled in velocity. The raw vibration output scaled in acceleration is a 100 mV/g signal (±20%) while the raw vibration output is a 100 mV/ips (±20%). Both raw vibration outputs have a frequency range of 1-10,000 Hz and a maximum amplitude of 15g pk. The same power supply can be used for both 4-20 mA loops by connecting both positive terminals directly to the power supply. Models without an integral cable have a three-pin connector while models with an integral cable have a four-wire pigtail.



Connection Diagram for 3-Pin Connector

CONNECTION DIAGRAM FOR 4-WIRE PIGTAIL	
Wire Color	**Connection**
RED	Vibration +
BLACK	Vibration -
GREEN	RV/RVVO -
WHITE	RV/RVVO +

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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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