

*VIBRATION MONITORING  
FOR THE  
**PETROLEUM &  
CHEMICAL**  
INDUSTRY*



**WHEN RELIABILITY MATTERS  
CONNECT TO CONFIDENCE**

Many petroleum/chemical applications have hazardous environments due to gas, oil, or dust that could create a combustible atmosphere in and around the machines. As a result, vibration monitoring of critical assets provides key performance indicators for petrochemical plants worldwide to maintain employee safety and prevent operational downtime.

### ***What We Offer***

CTC's extensive experience in petrochemical environments has driven the design and manufacture of rugged and reliable vibration monitoring products that stand up to these environmental challenges and include CTC's unconditional lifetime warranty.

The CTC line offers products that are certified through CSA, ATEX, and IECEx for Intrinsically Safe (Class 1, Division 1 or Zone 0) and Non-Arcing, Non-Sparking (Class 1, Division 2 or Zone 2) environment.

### ***Common Applications Include:***

- Conveyors
- Fans
- Gear boxes
- Motors
- Pumps
- Compressors





**Sensors**



**AC963**



**AC964**



**TA911**



**TA916**

***Intrinsically Safe Low Capacitance Accelerometers:***

Available in top exit or side exit connector, integral cable, or armored integral cable. Sensitivity options: 10 mV/g, 50 mV/g, 100 mV/g

***Intrinsically Safe Dual Output Sensors for Acceleration and Temperature:***

Available in top exit or side exit connector, integral cable, or armored integral cable. Sensitivity options: 10 mV/g, 100 mV/g  
Vibration temperature output: 10 mV/°C

**4-20 mA**



**LP862**



**LP962-XXX-5XC**

***Intrinsically Safe Loop Power Sensors for Velocity or Acceleration:***

Available in top exit connector, integral cable, or armored integral cable.

**Barriers**



**IS111-1B**



**IS151-1B**

***Intrinsically Safe Barriers:***

For use with Class 1, Division 1/Zone 0,1 Sensors and Proximity Probes

**Sensors**



**AC931**



**AC934**



**AC940**



**AC950**



**TA931**



**TA936**

**4-20 mA**



**LP822-XXX-5XC**



**LP922**

**Low Capacitance for Use in "Non-Arcing, Non-Sparking" Environments:**

Available in top exit or side exit connector, integral cable, or armored integral cable. Sensitivity options: 10 mV/g, 50 mV/g, 100 mV/g

**Standard Accelerometers:**

Available in top exit 2 pin mini-MIL connector, side exit 2 pin mini-MIL connector, 3 pin side exit connector, or 4 pin mini-MIL side exit connector. Sensitivity options: 100 mV/g

**Dual Output Sensors, Acceleration and Temperature:**

Available in top exit or side exit connector, integral cable, or armored integral cable. Sensitivity options: 10 mV/g, 100 mV/g  
Vibration temperature output: 10 mV/°C

**Intrinsically Safe Loop Power Sensors for Velocity or Acceleration:**

Available in top exit connector, integral cable, or armored integral cable options.

**Sensors**



**AC102**



**AC104**



**AC192**



**AC194**



**AC115**



**AC155**



**AC117**



**AC118**



**AC133**



**AC134**

**Standard Size Accelerometers:**

Available in top exit or side exit connector, integral cable, armored integral cable, 4 pin M12 top connector, 4 pin M12 side connector, magnet mount, and built-in integral stud options. Sensitivity options: 25 mV/g, 50 mV/g, 100 mV/g

**Compact and Miniature Size Accelerometers:**

Available in top exit or side exit connector, integral cable, or armored integral cable options. Sensitivity options: 10 mV/g, 100 mV/g

**Triaxial and Biaxial Accelerometers:**

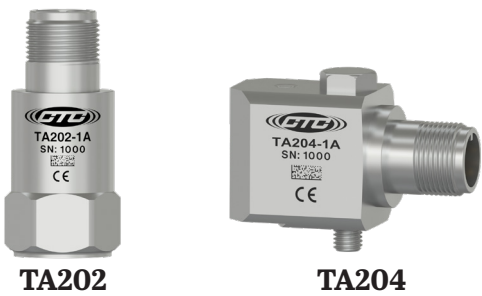
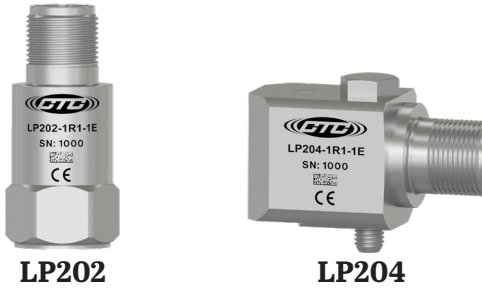
Available in standard and 4 pin top exit or side exit connector, integral cable, or armored integral cable. Sensitivity options: 10 mV/g, 100 mV/g

**High Frequency and High G Industrial Accelerometers:**

Available in top exit connector, integral cable, armored integral cable, and high frequency mini-MIL top exit and side exit options. Sensitivity options: 10 mV/g

**Low Frequency Accelerometers:**

Available in top exit or side exit connector, integral cable, armored integral cable, and 4 pin M12 top exit or side exit connector options. Sensitivity options: 100 mV/g, 250 mV/g, 500 mV/g, 1,000 mV/g

<p><b>Sensors</b></p>  <p><b>TA202</b>                      <b>TA204</b></p>	<p><b>Dual Output Accelerometers with Temperatures Output:</b></p> <p>Available in top exit or side exit connector, integral cable, armored integral cable, M8 captive bolt, M12 top exit or side exit connector. Sensitivity options: 50 mV/g, 100 mV/°C, 100 mV/g, 10 mV/°C, 500 mV/g, 10 mV/°C Vibration temperature output options: 10 mV/°C, 10 mV/°K</p>
<p><b>4-20 mA</b></p>  <p><b>LP202</b>                      <b>LP204</b></p>	<p><b>Loop Power Sensors for Velocity or Acceleration:</b></p> <p>Available in top exit or side exit connector, integral cable, or armored integral cable.</p>

CABLES & CONNECTORS



We offer a wide variety of cables and connector options for various durability, chemical, and environmental needs.

Large gains in safety and efficiency may be realized by implementing junction boxes into your condition monitoring program. Multiple sensors may be wired to the junction boxes for safe, local measurement utilizing a data collector. Junction boxes may be used for cable reduction purposes or for switched outputs during manual route data collection of the vibration signals. CTC junction boxes are available in fiberglass, powder-coated aluminum or stainless steel and feature well-organized sensor management and measurement access in a NEMA or IP rated enclosure.



### 4-20 mA SIGNAL CONDITIONERS

---

Signal conditioners offer a variety of high/low pass filtering options, 4-20 mA signal transmission, and a BNC output for dynamic vibration measurement.





CTC is the world leader in the design and manufacture of industrial accelerometers, piezo velocity transducers, 4-20 mA vibration sensors, and proximity probes as well as all related mounting hardware, cabling, and junction boxes. Our products enable efficient vibration monitoring for predictive maintenance in a wide variety of industries. Industries served include cement, mining, petrochemical, food & beverage, auto, steel, wind, paper & pulp, power generation, water & wastewater treatment, pharmaceutical, hospitals, bottling, and more. Our mission is to offer the widest variety of accelerometers and vibration hardware products, which are compatible with data collectors and online monitoring systems, as well as the tools for installation.



The CTC product line features vibration analysis hardware for heavy industry.

All CTC products are backed by our unconditional, lifetime warranty. If any CTC product should ever fail, we will repair or replace it at no charge.



The PRO line offers the industry's most reliable proximity probe sets.

All PRO products are backed by a lifetime warranty on materials and workmanship. PRO will repair or replace any of our products as long as the product was not subjected to misuse, neglect, natural disasters, improper installation, or modification.

*\*Please note: The logo on the product indicates the specific warranty for which it will qualify for the duration of its lifetime.*

All stock products may be returned for a 25% restocking fee if returned in new and unused condition within 90 days of shipment. Built-to-order and private-label products qualify for a 50% refund if returned in new and unused condition within 90 days of shipment. Custom products are quoted and built specifically to the requirements of the customer, which may include completely custom product design or private-labeled versions of standard products for OEM customers. Custom products are non-cancellable, non-returnable, and non-refundable.

