

Who We Are

At CTC, we are a family-owned and operated business passionate about providing the best quality products backed by excellent customer service. We are the industry leader in quick delivery for stock and built-to-order products. All CTC products are proudly made or assembled in the U.S.A. We always honor our best-in-class warranties, and our customer service seeks to provide the best customer experience in the world.

What We Do

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, power generation, water & wastewater treatment, pharmaceutical, hospitals, bottling, and more. Our mission is to offer the most extensive collection of accelerometers and vibration analysis hardware products, as well as the tools for installation. Our products are compatible with multiple third-party data collectors and online monitoring systems.



TODD COOK Co-Owner



aura B. Cook

LAURA COOK Co-Owner



And_ la

ANDREW COOK Director of Sales



Charlotte Cook

CHARLOTTE COOK Director of Marketing

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PROTECTION & RELIABILITY INSTRUMENTS

Product Offerings

At CTC, we offer two comprehensive product lines to meet your industrial vibration monitoring needs. Our products reflect the input from customers and distributors around the world and are designed and tested to meet the real-world demands of plant environments. We believe our products are the highest quality on the market, which is why we back each product line with our best-in-class warranties.



VIBRATION ANALYSIS HARDWARE

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 complete proximity probe systems compatible with all standard condition monitoring software.

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.

Refund Policy

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

New to the CTC Family



SC300 Series Field Configurable Signal Conditioner

The SC300 signal conditioners are a powerful yet flexible tool for continuously monitoring critical equipment.

Two independent outputs, configurable to either 0-20 mA, 4-20 mA, 0-5V, or 0-10V; each with its own configurable scaling in reference to the input sensor

Ultrasound frequencies supported up to 40 kHz

Field configurable via external USB port to PC with free CTC configuration software

TXFA330 Series Low Frequency Triaxial Accelerometer

500 mV/g

Side exit

Designed for Low Speed Rotors, Main Bearings, and Gear box inputs

Premium 5% and low cost 15% sensitivity tolerance options available





TCEB330 Series Miniature Industrial Circular Triax

100 mV/g

Top exit

Compact, circular case creates an ergonomic design for portable measurements

Premium 5% and low cost 15% sensitivity tolerance options available



CTC offers a complete line of industrial accelerometers. Our ruggedized industrial accelerometers are available in single axis, biaxial, and triaxial designs. Many configurations allow for either top or side exit options. Side exit configurations are suitable for installations in areas where height is an issue. CTC's industrial accelerometers support a diverse set of applications with sensitivity values ranging from 10 mV/g to 1000 mV/g. Dual output configurations allow for vibration and temperature outputs.

Multipurpose Accelerometer, Top Exit



STANDARD SIZE



COMPACT SIZE



MINI SIZE

Multipurpose Accelerometer, Side Exit



STANDARD SIZE



COMPACT SIZE



MINI SIZE



ACCELEROMETERS

Multipurpose Accelerometer, Integral Cable Options







STANDARD INTEGRAL ARMORED INTEGRAL

FEP JACKETED

HEAVY DUTY ARMORED

ULTRASOUND



Ultrasound Sensors

UEB332/UEA332

High frequency ultrasound sensors with high amplitude resonance peak for stress wave measurement techniques and IEPE amplifier technology.

Sensitivity: 100 mV/g Resonant Peak: 42 kHz

HIGH-TEMPERATURE

High-Temperature Accelerometers



AC207/AC208 100 mV/g Max Temp: 325° F (162° C)





CM362-7A 50 mV/g, 100 mV/g 100 mV/in/sec Max Temp: 650° F (343° C)



TR207/TR208 100 mV/g RTD Sensors Max Temp: 325° F (162° C)

WIND TECHNOLOGY

Power generation is a critical need in today's world. Uptime is the primary concern, and to maintain power generation, the machines need to be running. CTC's goal is to improve reliability with permanently mounted accelerometers to monitor wind turbine vibration and provide early detection for potential failure. CTC has multiple options to fit your specific application. Low-frequency accelerometers are ideal for main bearing and other slow-speed applications. Our multipurpose accelerometers are best suited for gearboxes and generators.

Accelerometers for Wind Turbine Applications

WT135

Low frequency wind turbine accelerometer, 500 mV/g



WT136

Low frequency wind turbine accelerometer, 500 mV/g



MOLDED ACCELEROMETERS

Underwater Accelerometers



featuring a fully molded design







TEMPERATURE & VIBRATION

Dual Output Temperature and Vibration Sensors



TA202 100 mV/g 10 mV/°C Temp Range: -40 °F to 250 °F -40 °C to 121 °C



TA204 100 mV/g 10 mV/°C Temp Range: -40 °F to 250 °F -40 °C to 121 °C



TR102-M12A 100 mV/g **PT100 RTD** Temp Range: -40 °F to 250 °F -40 °C to 121 °C



TR104-M12A 100 mV/g/axis **PT100 RTD** Temp Range: -40 °F to 250 °F -40 °C to 121 °C

HAZARDOUS RATED

Hazardous Rated Accelerometers

CTC offers a variety of single axis, biaxial, triaxial, dual output, and low capacitance sensors certified for Class I Division 2 (ATEX/IECEx Zone 2), as well as intrinsically safe protection methods under Class 1 Division 1 (ATEX/IECEx Zone 0/1).

Hazardous Ratings





CE PESO CE [f] ANZEX











MULTI-AXIAL

Compact Triaxial Accelerometers



TREA330 100 mV/g



TRCA330 10 mV/g



TCEB331 100 mV/g

Other Popular Triaxial Accelerometers



AC115 Low Cost Standard Size 100 mV/g



AC230 Premium Standard Size 100 mV/g



AC365 Modal/ODS Standard Size 100 mV/g



TXFA331 Premium Low Frequency 500 mV/g

Popular Biaxial Accelerometers



AC119 Biaxial with X & Z axis 100 mV/g



AC979 Intrinsically Safe Biaxial with X & Z axis 100 mV/g

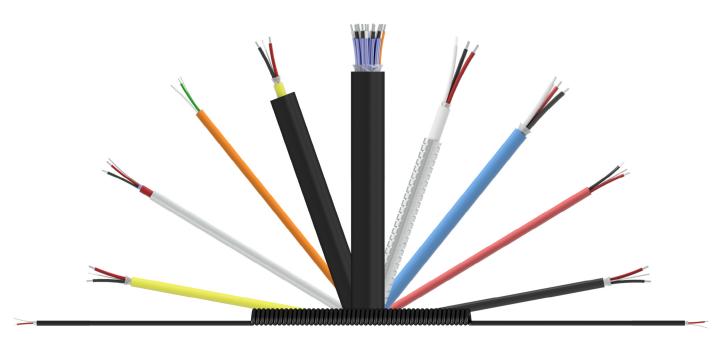


BSFA333-IV Inverse Voltage Biaxial with X & Z axis 100 mV/g



CABLES

CTC Offers a Variety of Cable Options for All Application and Environmental Criteria



JACKET TYPES

- Fluorinated ethylene propylene (FEP)
- Polyurethane
- Lightweight Polyurethane
- PVC
- Thermoplastic
 Elastomer (TPE)
- Low Smoke Zero Halogen

ARMOR OPTIONS

- Stainless Steel Braided Sheathing
- Stainless Steel Armor
- Hydraulic Hose
 Armor

CONDUCTOR OPTIONS

- 2 Conductor
- 3 Conductor
- 4 Conductor
- 6 Conductor
- 8 Pair Multi Conductor
- 12 Pair Multi Conductor
- 16 Pair Multi Conductor
- 12 Triad Multi Conductor

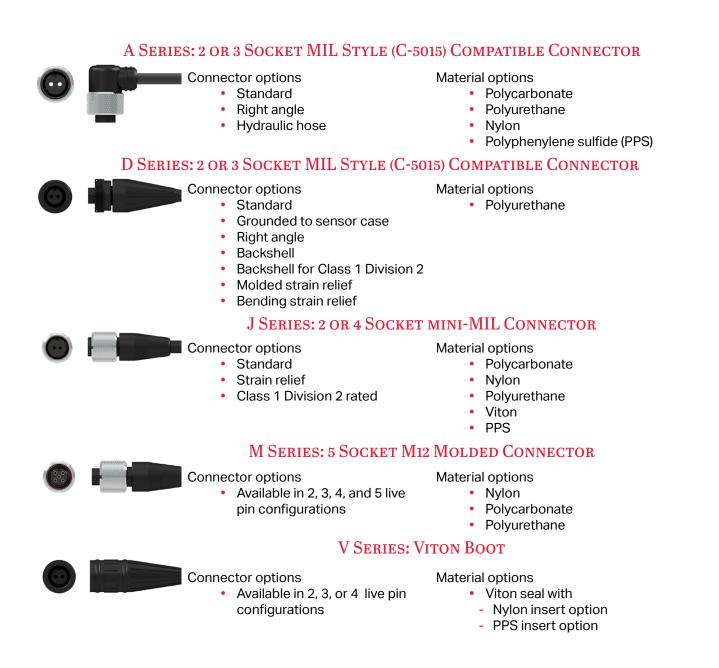
HAZARDOUS ZONE OPTIONS

Class 1 Division 2 approved cables



CTC Offers a Variety of Standard and Specialty Connectors for Every Possible Application

CTC sensor connectors support temperatures ranging from -58 ° F to 325 ° F (-58 °C to 163 °C). A wide selection of connectors supporting IP (Ingress Protection) ranging from IP66 to IP68 is available.



Many other connector options are available. Please visit our website for more details.

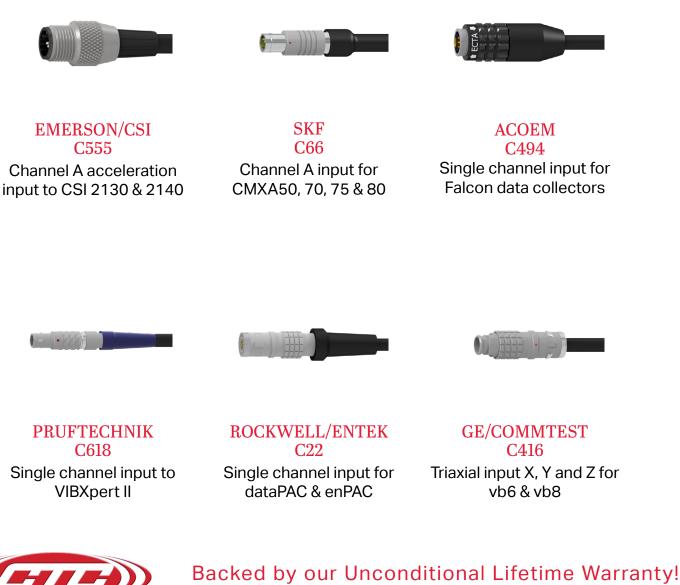


Data Collector Cord Sets

CTC offers a variety of OEM replacement data collector cables and portable cable options for all major vibration analyzer manufacturers. Data collector cables are available in both coiled and straight cable options. Replacement cable assembly and adapters are available for every major data collector including:

ACOEM, ADASH Ltd, GE/Commtest, Azima/DLI, Emerson/CSI, Erbessd, Pruftechnik, Rockwell/Entek, Schenck Trebel, SDT, SEMAPI, SKF, and SPM.

Popular Data Collector Connectors



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Popular Adapters



CB901-1A 2 pin MIL to 2 pin MIL in-line feed thru



CB903-1A 2 pin MIL to 2 pin MIL bulk head feed-thru, ½-NPT



CB908-1A 2 pin MIL to BNC plug adapter with molded reinforcement



CB910-1A In-line BNC jack to BNC jack adapter



CB911-1A BNC tee adapter



CB911-3A In-line BNC plug to BNC plug adapter



CB912-1A 2 socket MIL to BNC plug adapter



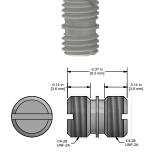


CB917-1A BNC jack feed-thru connector with mounting bracket



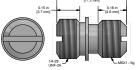
EMPP BNC jack measurement point with protective cover

Specialty Mounting Adapters & Studs



MH108-1B 1/4-28 to 1/4-28 mounting stud stainless steel

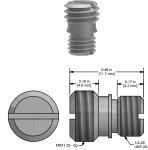




MH108-5B 1/4-28 to M6x1 adapter stud stainless steel



MH108-3B 1/4-28 to 10-32 adapter stud stainless steel



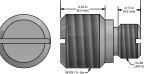
MH108-6B

1/4-28 to M8 adapter stud stainless steel



MH108-4B 1/4-28 set screw 1/2 in. length stainless steel





MH108-7B 1/4-28 to M10 adapter stud stainless steel

Junction Box Accessories



JB903-1A Cord grip for use with cable diameter 0.118 in. - 0.256 in.





JB938 1 in. or 1¹/₄ in. rigid body conduit fitting



JB907 3 Position Terminal Plug, Continuous **Output Available**

JUNCTION BOXES

At CTC, we offer the widest variety of junction boxes in the world. Our junction box solutions allow for the monitoring of remotely mounted vibration sensors, which would be otherwise restricted to human access due to safety considerations. Also offered is a selection of low-cost cable termination boxes that allow multiple measurement points to be routed to a single location to gather data. Many CTC junction boxes offer continuous output options for direct interface to online monitoring systems.

Premium JB Series Switch Boxes

Fully featured NEMA 4X (IP66) rated vibration junction box with IEPE sensor condition indicator lights and convenient interface with fold-forward panel for easy wiring. Compatible with single axis, biaxial, and triaxial inputs.



JB100/JB200 4-12 Fiberglass or stainless enclosures allow for up to 12 channels



JB100/JB200 24-48 Fiberglass or stainless enclosures available in 24, 36, or 48 channels



JB300 SLOPE TOP Available in 4, 6, 8, 10, or 12 channels

Legacy Switch Boxes



SB102/SB202/SB262 Fiberglass, stainless steel, or slope top switch boxes available in 4, 6, 8, 10, or 12 channels



SB142/SB242 Fiberglass or stainless steel switch boxes for dual output available in 4, 6, or 8 channels



SSB-MODX 12 channel DIN rail mountable switch module subassembly



JUNCTION BOXES

Cable Termination and Enclosed BNC Connection Boxes



CT101 Cable termination boxes for up to 4 channels



MMX-MOD3 DIN rail mountable module for up to 3 channels



MX102/MX202 Fiberglass or stainless steel MAXX boxes available in 1-12 channels



MX502 Aluminum Mini-MAXX boxes available in up to 4 channels

Cable Reduction Boxes

CTC cable reduction boxes offer a collection point for sensor input cabling, enabling data to be transferred along a single multi-conductor cable. This efficiency saves both money and time in system installation. Fiberglass and stainless steel options are available.



CR102/CR202 Fiberglass or stainless steel cable reduction boxes for 8, 12, and 16 channels -58 °F to 180 °F -50 °C to 82 °C

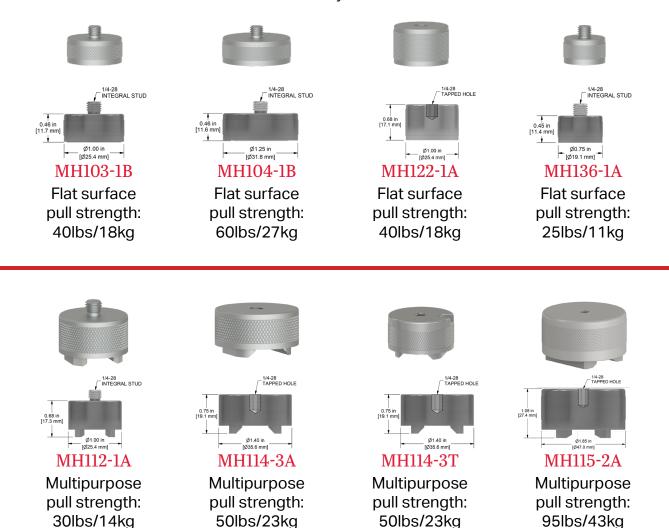


CRHT102/CRHT202 Fiberglass or stainless steel high temperature cable reduction boxes for 12 and 16 channels -40 °F to 212 °F -40 °C to 100 °C



CTC offers a variety of adhesive and stud mounted sensor mounting pads. Magnet mounting pad options for portable field applications are also available, including flat and two rail mounting configurations. Additionally, we offer specialty mounting accessories for fin-cooled motors as well as a variety of extension adapters, which allow access to traditionally hard-to-reach bearing locations. Visit our website for a complete list of our mounting hardware solutions.



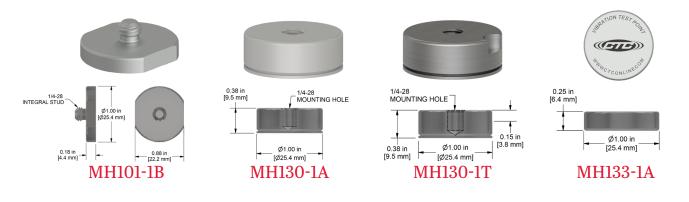




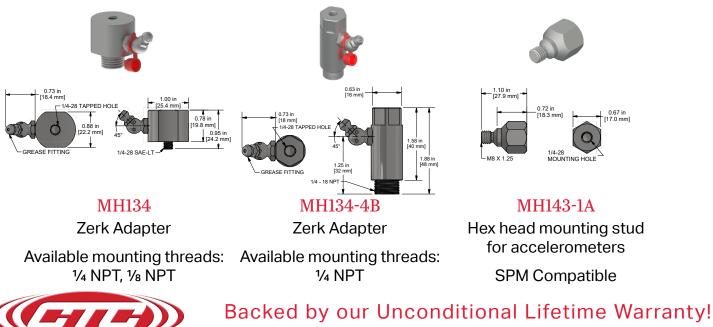
Accelerometer Quick Disconnects



Mounting Pads/Magnet Targets



Zerk and Specialty Mounting Adapters

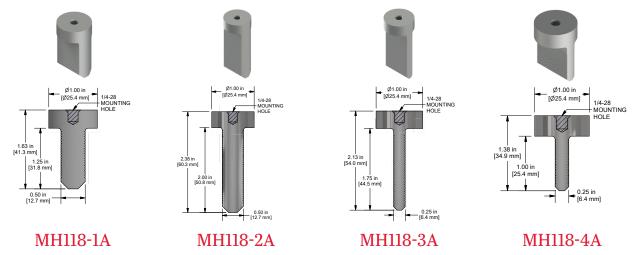


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Motor Fin Probe Pads

Take measurements from hard-to-reach places.



Our fin mount probes are perfect for narrow measurement points in motors, turbines, and other machinery. Fin mounts can be used for portable route measurements or permanently mounted accelerometers.

Accelerometer Installation Tool Kit



MH117 SERIES Spot face and pilot hole drill in one operation. Option for taps and ratcheting tap handle included.

High speed steel end mill tool kits

 Available thread sizes
 Available end mill diameters

 1/4-28
 5% in., 1 in., 11/4 in.

 10-32
 5% in., 1 in.

 M5x.8
 5% in.

 M6x1
 1 in., 11/4 in.

 M8x1.25
 11/4 in.

Carbide tipped end mill tool kits

Available thread sizesAvailable end mill diameters¼-28% in., 1 in., 1¼ in.M8x1.251¼ in.



CTC offers a wide array of 4-20 mA output solutions for industrial applications. CTC's standard 4-20 mA loop-powered vibration sensors are available with velocity as well as acceleration output measurement options. CTC's loop-powered sensor line also includes a dual output option, with both 4-20 mA output and dynamic output configurations in one sensor. Other options include 24 VDC powered transmitters that power standard IEPE accelerometers and convert the vibration to a powered 4-20 mA signal. These transmitters also offer a 4-20 mA output for temperature when coupled with CTC dual output vibration and temperature sensors.

Velocity & Acceleration

LP200 Series sensors for velocity and LP300 Series sensors for acceleration come in top or side exit connector, integral cable, and armored integral cable options. LP400 Series sensors for dual output come in top, integral, and armored integral exit options.



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SIGNAL CONDITIONERS



SC310 SERIES USB configurable, single channel vibration plus temperature



SC320 SERIES USB configurable, dual channel vibration plus temperature

4-20 mA Enclosures

CTC's Signal Conditioner Enclosures are turnkey solutions, which come fully populated with signal conditioners, power supply, and terminal blocks for sensor terminations. The signal conditioners are available pre-configured based on customer-specific requirements. Terminal blocks are provided for easy sensor terminations. These terminal blocks are pre-wired to the signal conditioners, and the outputs from the signal conditioners are wired to terminal blocks for integration into PLC/DCS systems.



SCE SERIES 1-12 channel enclosures, fiberglass or stainless steel



1-4 channel enclosure, relay & protection for signal conditioner inputs



PMX SERIES 1-8 channel enclosures, relay & protection for loop power sensor inputs



PROXIMITY PROBES

CTC offers a complete line of proximity probe systems designed and built to endure the harshest industrial environments. Proximity probes systems are available with probe tip sizes in FFV 5mm, 8mm, 11mm, and 25mm diameters. The variety of probe sizes offered allows accurate and precise machinery measurements for applications involving radial dynamic, axial rotor position, and thermal case expansion measurements.





Backed by our Best-in-Class Warranty! www.ctconline.com 585-924-5900

Wireless Vibration Transmitter



Bluetooth[®] 5 capable.

Compatible with AC312/AC314 low power accelerometers.

Captures a dynamic signal at a user specified sampling rate for a user specified sample time.

WA102-1A

Estimated 4+ years of battery life when taking 2 or fewer scheduled measurements daily.

User configurable 1 - 40ks/sec, F-max = 15,652 Hz ((40ks/s) / 2.56). Completely customizable monitoring software — No subscription required.

WA100-TAB

Microsoft - Surface Go 2 10.5 in. Touch Screen Keyboard and stylus not included Processor Model: Intel Pentium Gold 4425Y System RAM: 4GB Storage capacity: 64GB Micro SD Card slot available for expandable storage



Coming Soon

WA100-AP

Bluetooth 5 wireless transmission

1000 Mbps Wired Ethernet connection to any private network

Three connection speeds: 2 Mbps, 1 Mbps, 125 kbps (Long Range Mode)

150 ft range with Line of Sight, 600 ft when operating in Long Range Mode

On-board 4 GB storage for offline readings until database connection is restored

Device is programmable through the free CTC Wireless Application.



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IBRATION ANALYSIS HARDWARE



PROTECTION & RELIABILITY INSTRUMENTS

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