2024
YEAR IN REVIEW

A YEAR OF INNOVATION

NEW

Products

VN1000 Series VibeNavigator™ Data Collection Extension Pole

Product Highlights:

- Easily and safely collect data from hard-to-reach places
- Integrated breakaway safety feature connector and internally-routed cable for enhanced analyst safety
- Completely customizable mating safety feature for compatibility with your data collector
- Available in 3 lengths: 2 - 4 ft (0.6 - 1.2 m), 4 - 8 ft (1.2 - 2.4 m), 6 - 12 ft (1.8 - 37 m)
- Flexible mounting pivot point – sensor can rotate up to 80°

VN1000 Series VibeNavigator™ Data Collection Extension Pole

Available Options (click on a product to view on our website):

VN1000-XA
for CTC standard size, top exit,
single-axis
accelerometers

VN1000-XB
for CTC TCEB330
Series circular triaxial
sensors

VN1000-XC
for Emerson/CSI A0643TX
triaxial
sensors

MA Series
High Voltage Isolated Accelerometers

Product Highlights:

- 10 kV DC (7 kV AC) electrical isolation between the base and internal electronics
- Molded polycarbonate case with fully encapsulated sealing and stainless steel base and connector
- Designed for use with CTC grounded connectors for added noise protection (A2AG and A2NG)
- Two pin, top exit connector
- 2.22 in. (56.3 mm) overall height
- -58 to 250 °F (-50 to 121 °C) temperature range

MA Series
High Voltage Isolated Accelerometers

Available Options (click on a product to view on our website):

MA102-1A
100 mV/g, ±10%

MA133-1A
500 mV/g, ±10%

MA150-1A
100 mV/g, ±15%

MA153-1A
500 mV/g, ±15%

MA202-1A
100 mV/g, ±5%

MA233-1A
500 mV/g, ±5%

HVLP Series
High Voltage Isolated Loop Power Sensors

Product Highlights:

- 10 kV DC (7 kV AC) electrical isolation between the base and internal electronics
- Molded polycarbonate case with fully encapsulated sealing and stainless steel base and connector
- Designed for use with CTC grounded connectors for added noise protection (A2AG and A2NG)
- Two pin, top exit connector
- 2.22 in. (56.3 mm) overall height
- -4 to 212 °F (-20 to 10 °C) temperature range

HVLP Series
High Voltage Isolated Loop Power Sensors

Available Options (click on a product to view on our website):

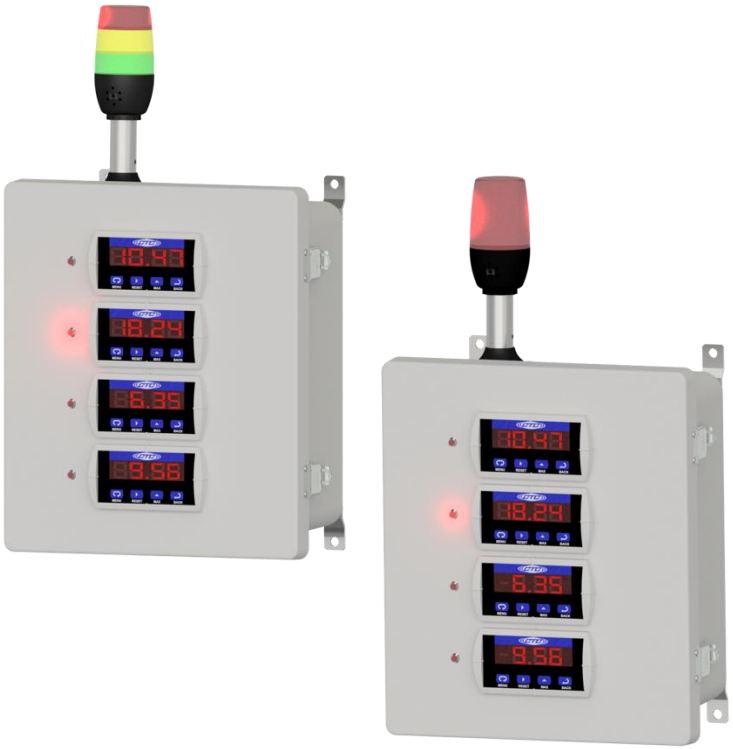
HVLP202
4-20 mA output
proportional to vibration in
velocity

HVLP302
4-20 mA output
proportional to vibration in
acceleration

Optional Stack Lights For Relay & Display Enclosures

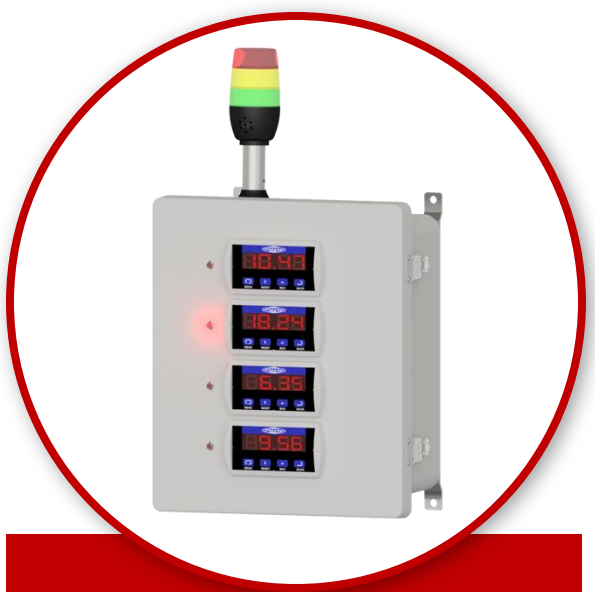
Product Highlights:

- Protect critical machinery and processes from excessive vibration and catastrophic failure
- Capability to trigger alarms based on the amplitude of the overall vibration within a selected frequency range
- Stack light available in single-color (red) or tricolor options with optional horn alarm
- Stack light can be programmed to flash or remain steadily on when in alert



Optional Stack Lights
For Relay & Display Enclosures

Available Options (click on a product to view on our website):



PMX Series
for 1- 4 Loop Power Sensors

PXD100 Series
for 1- 4 PRO Line
Proximity Probes

SCD100 Series
for 1- 4 CTC SC Series
Signal Conditioners

M12 Connector Options
For Low Frequency 500 mV/g Sensors

Product Highlights:

- Popular 4 pin, M12 connector
- Standard size top and side exit orientations
- Welded, hermetic sealing
- -58 to 250 °F (-50 to 121 °C) temperature range
- Designed for low-speed rotors, main bearings, and gear box inputs, as well as high frequency detection

Available Options (click a product to view on our website):

AC133-M12A
500 mV/g, ±10%

AC134-M12A
500 mV/g, ±10%

AC233-M12A
500 mV/g, ±5%

AC234-M12A
500 mV/g, ±5%

C644
Data Collector Connector

Click on the product
to view on our website

Product Highlights:

- For use with the popular Pruftechnik VIBXPERT 3 Data Collector
- 3 pin connector
- Durable polyurethane strain relief
- IP66 rated
- Single-axis compatible
- Our previously existing C619 connector is the triaxial compatible version for the VIBXPERT 3

MH107-3A
Quick Disconnect Receptacle

Click on the product
to view on our website

Product Highlights:

- 1/4-28 adjustable orientation integral stud mounting bolt
- Designed for use with triaxial wireless sensors
- Easily control orientation of axes
- 316L stainless steel
- 90-degree engagement with quick disconnect stud for accurate, repeatable readings

Storage Cases
For TMP Line Sensors

Click on the product
to view on our website

Product Highlights:

- Protect your TMP sensor investments with our complimentary storage case
- Molded from conductive polypropylene material (ESD-safe) which makes these cases perfect for storing static-sensitive components
- Custom-cut foam insert holds your sensor securely in place to prevent damage during storage
- Interior case dimensions: 3 x 3 x 1.25 in. (7.6 x 7.6 x 3.2 cm)
- Included with all TMP sensors

WS100
ConnectSens™ Wireless Sensor

Product Highlights:

- Triaxial process control sensor with temperature output
- Overall vibration amplitude data in RMS, Peak, or PK-PK
- Factory configurable reading intervals in hours (from 1 – 24)
- Industry-leading 2,1000 ft. (640 m) line-of-sight range
- User-replaceable battery with up to 4 years battery life
- With frequency bands available from 2 Hz to 5 kHz

WS200
ConnectSens™ Wireless Sensor

Product Highlights:

- Single-axis dynamic vibration signal capture sensor with temperature output
- Time waveform and FFT data
- User-configurable reading interval configurable in hours from 1 - 24
- Industry-leading1,200 ft. (366 m) line-of-sight range
- User-replaceable battery with up to 4 years battery life
- Frequency Range: 0.5 Hz to 10 kHz

WS300
ConnectSens™ Wireless Sensor

Product Highlights:

- Triaxial dynamic vibration signal capture sensor with temperature output
- Time waveform and FFT data
- User-configurable reading interval configurable in hours from 1 - 24
- Industry-leading1,200 ft. (366 m) line-of-sight range
- User-replaceable battery with up to 4 years battery life
- Frequency Range: 0.5 Hz to 10 kHz

ACCESS360
ConnectBridge™ Wireless Gateway

Product Highlights:

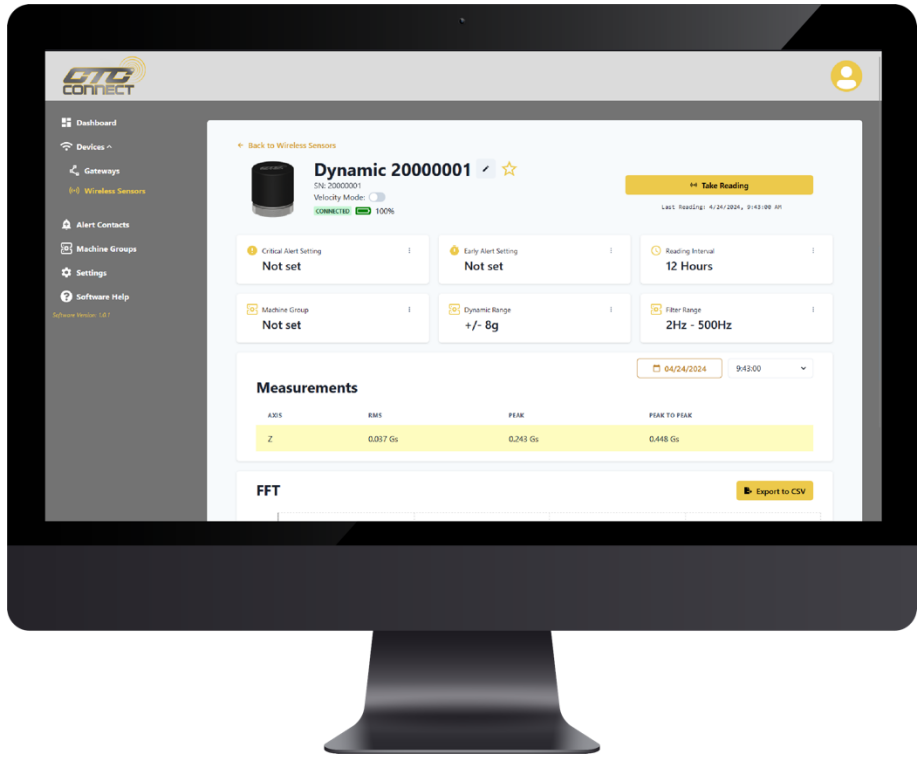
- Used to connect CTC Connect-compatible products to a TCP/IP network
- Onboard storage with expansion available through micro SD slot
- Unlimited sensor inputs - mix and match ConnectSens™ WS100, WS200 and WS300 sensors in any quantity
- Comes preloaded with free ConnectView™ web App which provides basic vibration monitoring management tools and device management options and is designed for integration into 3rd party systems

ConnectView™ Web App

Product Highlights:

- ConnectView™ basic vibration tools and device management web app comes preinstalled on ACCESS360 ConnectBridge™ Wireless Gateway
- Own your data - no hidden recurring charges
- Configure WS200 & WS300 Sensors (WS100 sensors are factory configurable only), nickname sensors, create machine groups, view sensor battery life, view basic vibration data, and more
- Access the ConnectView™ Wireless Web App on any PC, laptop, tablet, or smartphone connected to the same network as your other Connect Line Products, or remotely via your cloud

Designed to be used in conjunction with 3rd party vibration analysis software and is not intended for in-depth analysis



DISPKIT-CONNECT
Connect Wireless Display Kit

Product Highlights:

Includes our most popular, fully-functional Connect Line wirelesss hardware:

- WS100 Series Sensor
- WS300 Series Sensor
- MH214-3A Mounting Magnet
- MH107-3A Quick Disconnect Receptacle
- ACCESS360 Gateway
- WS-PoE Power over Ethernet Injector

Comes packaged in a heavy-duty, foam-lined plastic case is waterproof and TSA-approved

Exterior Dimensions: 16.30 in (414 mm) L x 13.58 in (345 mm) W x 5.08 in (129 mm) D

NEW

Videos

Connect Line
Video Resources

Click on the video images to watch the full videos on YouTube:

Teaser

Overview

Connect Line
Video Resources

Click on the video images to watch the full videos on YouTube:

Product
Video Resources

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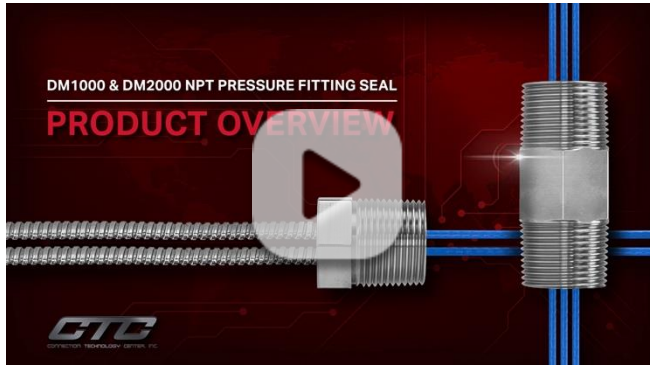


How-To
Video Resources

Click on the video images to watch the full videos on YouTube:

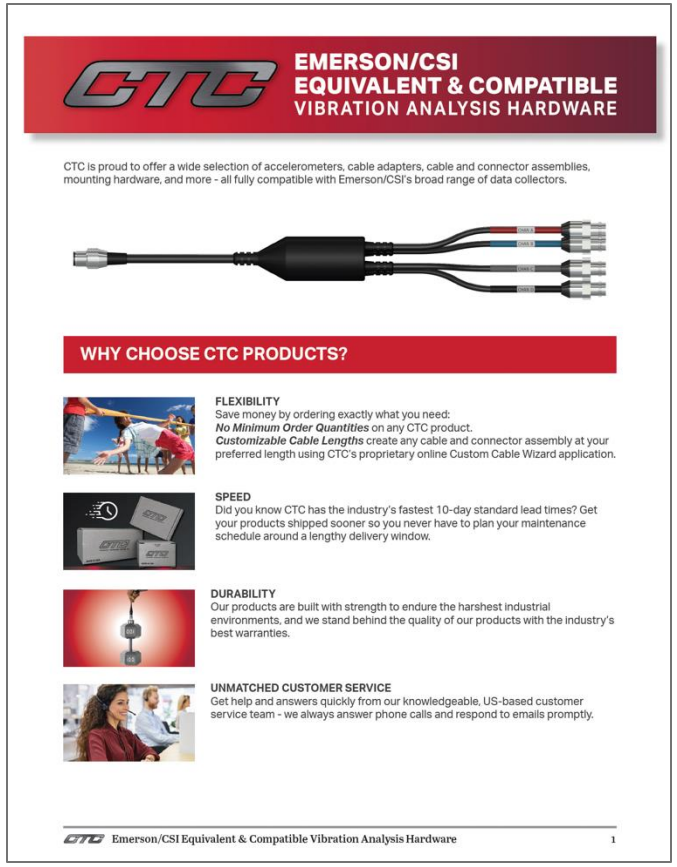
Spanish Translation Video Resources

Click on the video images to watch the full videos on YouTube:

NEW

Resources

Emerson Compatible Short Form Catalog



EMERSON/CSI EQUIVALENT & COMPATIBLE VIBRATION ANALYSIS HARDWARE

CTC is proud to offer a wide selection of accelerometers, cable adapters, cable and connector assemblies, mounting hardware, and more - all fully compatible with Emerson/CSI's broad range of data collectors.

WHY CHOOSE CTC PRODUCTS?

FLEXIBILITY
Save money by ordering exactly what you need:
No Minimum Order Quantities on any CTC product.
Customizable Cable Lengths create any cable and connector assembly at your preferred length using CTC's proprietary online Custom Cable Wizard application.

SPEED
Did you know CTC has the industry's fastest 10-day standard lead times? Get your products shipped sooner so you never have to plan your maintenance schedule around a lengthy delivery window.

DURABILITY
Our products are built with strength to endure the harshest industrial environments, and we stand behind the quality of our products with the industry's best warranties.

UNMATCHED CUSTOMER SERVICE
Get help and answers quickly from our knowledgeable, US-based customer service team - we always answer phone calls and respond to emails promptly.

Emerson/CSI Equivalent & Compatible Vibration Analysis Hardware 1

Click the screenshot to view the printer-friendly pdf on our website

A complete guide to our Emerson/CSI equivalent and compatible vibration analysis hardware. Use the links below to view available options on our website:

- Accelerometers
- Cable Adapters
- Cable Assemblies
- Data Collector Connectors
- General Purpose Adapters
- Mounting Hardware
- VibeNavigator™ Extension Pole

Bently Neveda Orbit DCM Compatible Short Form Catalog

A complete guide to our wide range of instrumentation compatible with Bently Nevada Distributed Condition Monitoring (DCM) for use in standard Class 1, Division 2 / Zone 2 environments, including:

- Enclosures
- Proximity Probes
- IEPE Standard Accelerometers
- IEPE Triaxial Accelerometers
- Temperature Sensors

BENTLY NEVADA
ORBIT DCM COMPATIBLE
VIBRATION ANALYSIS HARDWARE

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CTC Bently Nevada Orbit DCM Compatible Vibration Analysis Hardware 1

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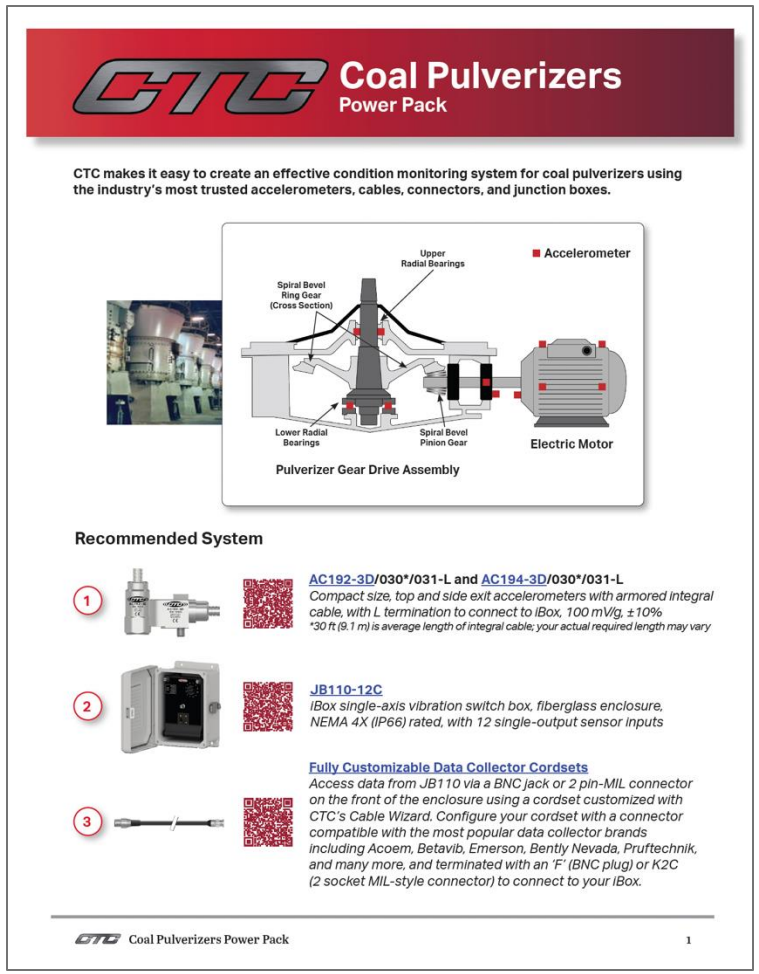
Power Pack Guides



Coal Pulverizers
Power Pack

CTC makes it easy to create an effective condition monitoring system for coal pulverizers using the industry's most trusted accelerometers, cables, connectors, and junction boxes.

Accelerometer
Upper Radial Bearings
Spiral Bevel Ring Gear (Cross Section)
Lower Radial Bearings
Spiral Bevel Pinion Gear
Electric Motor
Pulverizer Gear Drive Assembly

Recommended System

1 AC192-3D/030*/031-L and AC194-3D/030*/031-L
Compact size, top and side exit accelerometers with armored integral cable, with L termination to connect to iBox, 100 mV/g, ±10%
*30 ft (9.1 m) is average length of integral cable; your actual required length may vary

2 JB110-12C
iBox single-axis vibration switch box, fiberglass enclosure, NEMA 4X (IP66) rated, with 12 single-output sensor inputs

3 Fully Customizable Data Collector Cordsets
Access data from JB110 via a BNC jack or 2 pin-MIL connector on the front of the enclosure using a cordset customized with CTC's Cable Wizard. Configure your cordset with a connector compatible with the most popular data collector brands including Acoem, Betavib, Emerson, Bently Nevada, Pruftechnik, and many more, and terminated with an 'F' (BNC plug) or K2C (2 socket MIL-style connector) to connect to your iBox.

Coal Pulverizers Power Pack 1

Find recommended vibration monitoring hardware systems for specific industrial applications. . Use the links below to view the pdfs on our website:

- Coal Pulverizers
- Cold Rolling Mills
- Conveyor Belts
- Cooling Towers
- Direct Drive Fans
- Hot Rolling Mills
- HVAC Fans
- Industrial Centrifuges
- Power Plant Pumps
- Spindles
- Vaneaxial Air Handlers
- Vertical Pumps

Stack Light Defense Solutions

Explore systems using relay and display enclosures and vibration analysis hardware to simplify condition monitoring in common industrial applications. Use the links below to view the documents on our website:

- LubeDefense™ Automated Lubrication Monitoring Solution
- ProcessDefense™ Automated Vibration Monitoring
- TurboDefense™ Turbine Monitoring Solution
- VibeDefense™ Automated Vibration Monitoring Solution

CTC TurboDefense™
Turbine Monitoring Kit

CTC introduces its innovative TurboDefense™ Turbine Monitoring Solution which integrates the advanced features of the PXD Series Proximity Probe Driver Relay & Display Enclosure with a newly-added stack light feature. This comprehensive solution harnesses the power of CTC's PRO Line Proximity Probe Systems and converts the data into a 4-20 mA output signal that can be displayed and alarmed for automated journal bearing monitoring. In the world of turbo machine monitoring, most automated solutions require extremely expensive machine monitoring systems. Our TurboDefense™ breaks barriers as an easy, cost-effective solution for enhancing equipment reliability by alerting you before it's too late.

Kit Components

1 **PXD Series Proximity Probe Driver Enclosure with Stack Light**
Factory configurable for 1 to 4 Proximity Probe Drivers. Options for red light or tricolor stack light.

2 **PRO Proximity Probe Drivers**
Select from our best-in-class drivers:
First, select your compatible system -
5 mm FFv, 8 mm, or 11 mm proximity probe compatible drivers.
Then select your desired driver type -
4-20 mA overall, 4-20 mA axial, or 4-20 mA radial.

3 **PRO Proximity Probe (with Optional Extension Cables)**
Select from the industry's most durable proximity probe offerings for 5 mm FFv, 8 mm, and 11 mm proximity probes with a wide variety of system lengths with optional armor jacketing.

4 **PRO Proximity Probe Mounting Hardware**
Select from a wide variety of mounting accessories including mounting blocks, mounting bushings, and reverse mount housings.

CTC TurboDefense™ Turbine Monitoring Kit 1

Connect with CTC

We look forward to hearing from you

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sales@ctconline.com

(585) 924-5900

Connection Technology Center