

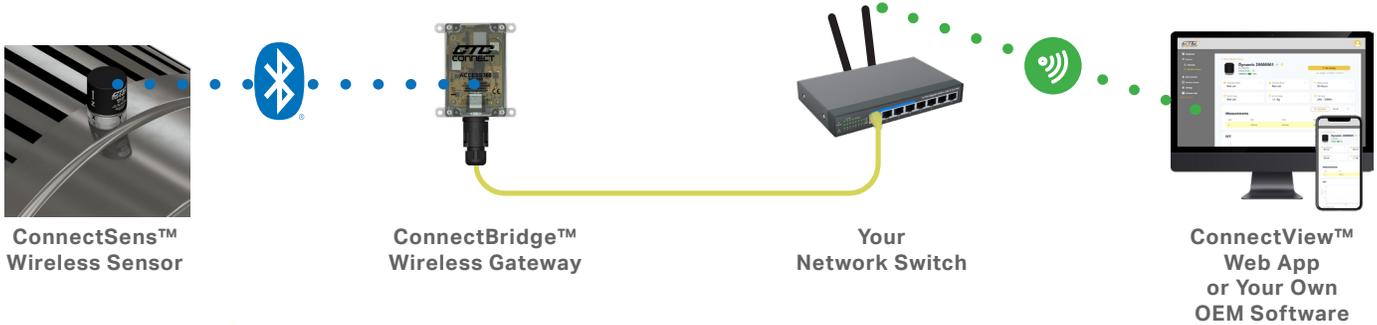
GTC CONNECT



WIRELESS CONDITION MONITORING SOLUTIONS
FOR SOFTWARE INTEGRATORS

WIRELESS DATA COLLECTION *DONE DIFFERENTLY*

THE CONNECT ECOSYSTEM



WHAT WE OFFER

CTC Connect is a line of wireless hardware for dynamic vibration signal or overall vibration signal with digital data transmission. CTC Connect products were designed based on inputs from hundreds of wireless hardware users from around the world. The result of our extensive research and collaboration is a wireless ecosystem designed specifically for the needs of software integrators.

The CTC Connect ecosystem offers you the highest quality wireless hardware system on the market, with industry-leading **Bluetooth®** line-of-sight range, and is designed for integration into 3rd-party vibration analysis software. Our complimentary ConnectView Web Application comes preloaded on the ConnectBridge Gateway and provides basic vibration monitoring management tools and device management options like sensor configuration, battery level information, and more. When used with 3rd-party vibration analysis software, our wireless sensors and gateway can be harnessed for advanced data analysis that meets your specific needs.



CTC ConnectView Basic Vibration Tools & Device Management Web App

The ConnectView Web App comes preloaded on all ConnectBridge Gateways with no need for additional downloads. All data is stored locally on the gateway and is accessible via your plant's network.



FREE API Integration

Our API allows users to utilize 3rd-party web app or software (such as OEMs or plants requiring customized solutions) to communicate with CTC ConnectSens Wireless Sensors.



Plug and Play Solutions For Reliability Professionals

Our CTC Connect hardware integrates effortlessly with software solutions provided by our vetted and approved partners, ensuring you have everything required for efficient and accurate monitoring.

CTC WIRELESS HARDWARE BENEFITS

- › **Industry-leading Bluetooth® line-of-sight range:**
 - › WS100 - 2,100 ft. (640 m)
 - › WS200 & WS300 - 1,200 ft. (366 m)
- › **Up to four years of unattended, autonomous operation**
- › **User-replaceable 3.6V 1Ah Lithium Thionyl Chloride Primary battery**
- › **Completely tailor your approach:**
 - › User-customizable settings to monitor the most important frequency ranges for your application
 - › Trigger a reading on demand or at preset intervals

STATE OF THE ART HARDWARE + 1 YEAR WARRANTY

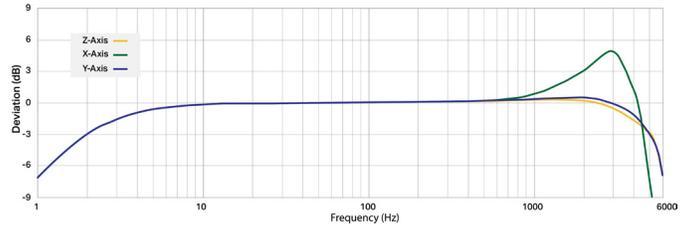
SELECTING YOUR CONNECT HARDWARE

Process Control Monitoring

Overall vibration sensor with temperature output that advertises periodic overall vibration levels (RMS, Peak, or Pk-Pk) over **Bluetooth®** Low Energy 5.2 which can be picked up by a ConnectBridge Gateway:



WS100 Series
ConnectSens Wireless Sensor - Triaxial Overall Vibration Signal with Temperature Output



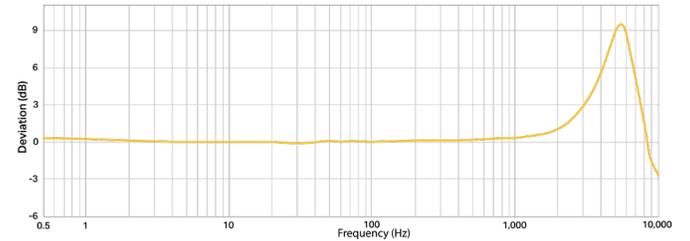
High frequency 2 Hz - 5 kHz only; not reflective of results on other frequency ranges

Dynamic Data Capture

All-in-one wireless vibration sensors with built-in temperature outputs:



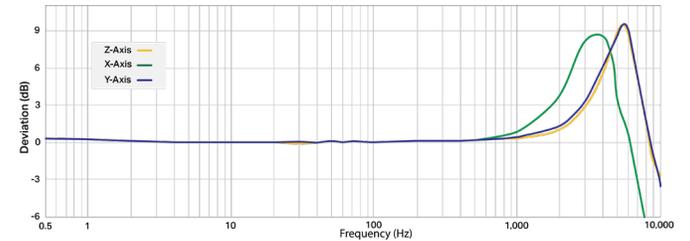
WS200 Series
ConnectSens Wireless Sensor - Single Axis Dynamic Vibration Signal Capture with Temperature Output



25.6 kHz sampling frequency is required to utilize full bandwidth shown



WS300 Series
ConnectSens Wireless Sensor - Triaxial Dynamic Vibration Signal Capture with Temperature Output



25.6 kHz sampling frequency is required to utilize full bandwidth shown

SENSOR SPECIFICATION HIGHLIGHTS*

Specification	WS100 Series	WS200 Series	WS300 Series
Line-of-Sight Range	2,100 ft. (640 m)	1,200 ft. (366 m)	1,200 ft. (366 m)
Number of Axes Measured	Triaxial Measurement	Single-Axis Measurement	Triaxial Measurement
Resonant Frequency	5.5 kHz	5.5 kHz	5.5 kHz
Reading Duration	500 ms	Dependent on Number of Samples & Sensor Configuration Settings	Dependent on Number of Samples & Sensor Configuration Settings
Reading Interval	Factory-Configurable in Hours From 1 - 24	User-Configurable in Hours From 0 - 24 **	User-Configurable in Hours From 0 - 24 **
Battery Life	1 - 4 years ***	1 - 4 years ***	1 - 4 years ***
Output Format	Overall Vibration in Peak, RMS, and Pk-Pk	Dynamic Vibration Waveform Samples	Dynamic Vibration Waveform Samples
Temperature Range	-40 - 80 °C	-40 - 80 °C	-40 - 80 °C

* Specifications are only accurate when used with a CTC ConnectBridge Gateway. If using an alternative method to receive your sensor signal, differences may occur in your actual line of sight range, battery life, and other specifications.

** With a value of 0, the sensor will take a reading triggered through the ConnectBridge Gateway (manual reading or user-configured intervals under 1 hour). If a new hourly rate is desired, this can also be configured through the gateway.

*** Achievable battery life depends on environmental conditions, configuration options, and sensor use. CTC recommends replacing the battery every four years, regardless of remaining battery life reported by the Web App, due to effects of battery degradation over time. If operating above 50 °C, replace the battery in half that time.

STATE OF THE ART HARDWARE + 1 YEAR WARRANTY



ACCESS360 ConnectBridge™ Gateway

All Connect-compatible devices can be used with our ConnectBridge Gateway. The gateway serves as the connection between CTC Connect-compatible hardware and CTC ConnectView Web App. The ConnectBridge Gateway can both send and receive data between your CTC Connect-compatible hardware and a TCP/IP network, functioning as both a network controller and a digital gateway. The ConnectBridge can service an unlimited number of any combination of CTC ConnectSens WS100, WS200, and WS300 sensors within range, with 20 concurrent connections.

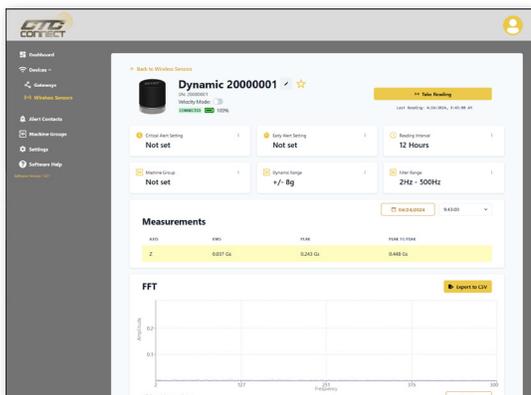
The gateway is stored in a durable, NEMA 4X (IP67-rated) enclosure and powered over Ethernet*. Each gateway includes an SD card where readings/data are stored, so in remote applications or if the gateway is not connected to a network, the SD card can be removed and connected to a computer to download data into the CTC ConnectView Web App or 3rd-party vibration analysis software.

**Please note, for remote applications where you cannot run PoE from your primary network, a 3rd-party PoE Injector is required.*

ACCESS2000 Long-Range Gateway

All Connect-compatible devices can be used with the ACCESS2000 Wireless Gateway. The gateway serves as the link between CTC ConnectSens wireless sensors and your preferred data analysis platform, including the CTC ConnectView Web App. It can send and receive data between ConnectSens hardware and a TCP/IP network over Wi-Fi or PoE, operating as both a wireless network controller and a digital gateway. ACCESS2000 supports an unlimited number of any combination of WS100, WS200, and WS300 sensors, with up to 20 concurrent connections supported through long-range Bluetooth Low Energy 5.2 communication.

The ACCESS2000 is housed in a durable, IP66-rated ABS enclosure and can be powered via DC input or Power over Ethernet. Each unit includes 64 GB of onboard storage, allowing data to be retained locally for remote installations or situations where network access is unavailable. Stored readings can be downloaded and imported into the CTC ConnectView Web App or third-party vibration analysis software, giving users flexibility in how they access and manage data while maintaining seamless integration within the broader Connect Wireless Ecosystem.



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ConnectView™ Web App

CTC's complimentary ConnectView Web App is a user-friendly platform that comes preloaded on the ConnectBridge Gateway. The web app offers basic vibration tools and device management functionality, including:

- » Configure WS200 and WS300 Series Sensor
(Please note, WS100 is factory configurable only)
- » Nickname sensors
- » Set critical and early alert values which can be viewed through the ConnectView Web App
- » Create machine groups
- » View battery life
- » Request readings on demand *(WS200 & WS300 only)*
- » View basic vibration data:
 - » WS100 - View overall vibration amplitude data in RMS, Peak, and Peak to Peak
 - » W200 & WS300 - View Time Waveform and FFT data

The web app is designed to be integrated with 3rd-party vibration analysis software for advanced analysis functions and is not intended to provide in-depth analysis features.