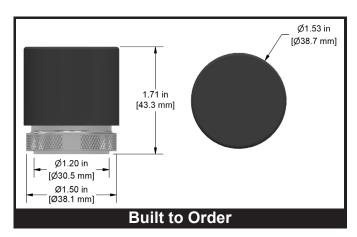


-40 °F to 176 °F



Product Features

2100 ft (640 m) line of sight range Up to four years of autonomous operation RMS, Peak, Peak-to-Peak in acceleration or velocity



Component Specifications

 $Specifications\ below\ reflect\ sensor\ use\ in\ conjunction\ with\ a\ CTC\ ConnectBridge^{\text{$\tt TM$}}\ gateway.\ If\ a\ ConnectBridge^{\text{$\tt TM$}}\ gateway\ is\ not\ used,$ specifications may vary. CTC does not provide technical support for direct integration of the sensor without a ConnectBridge™ gateway.

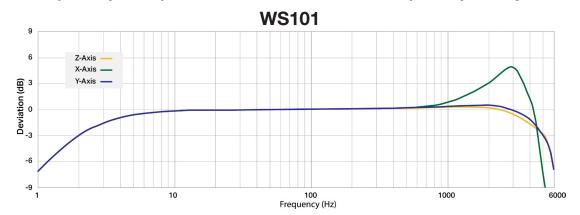
Factory configurable

Frequency Range	Factory configurable frequency bands	Operating Temperature Range	-40 °F to 176 °F (-40 °C to 80 °C)
Resonant Frequency	5.5 kHz	Maximum Shock Protection	5,000 g,
Reading Duration (All Axes)	500 ms	(Powered)	peak for 0.5 ms
Automatic Reading Interval	Factory configurable in hours from 1–24	Maximum Shock Protection (Unpowered)	10,000 g, peak for 0.2 ms
D . D	Factory configurable:	Sealing	Compressed Silicone O-ring
Dynamic Range	±8 g, ±16 g, ±32 g, ±64 g	Ingress Protection	IP67
Data Output Format	Overall vibration in Peak,	Operating Distance	Line of sight (2100 ft/640 m)
Data Gatpat Format	RMS, & Peak-to-Peak	Wireless Protocol	Bluetooth® Low Energy 5.2
Output Unit	Factory Configurable: acceleration (g's) or velocity (IPS)	Sensing Structure	MEMS - triaxial
Sample Resolution	16 bits	Weight	4.6 oz (130 grams)
Temperature Measurement	.6 2.16	Case Material	316L SS base with nylon cap
Range	-40 to 80 °C	Mounting Thread	1/4-28 blind tapped hole
Temperature Output Measurement Unit	°C	Mounting Torque	Base: 2 - 5 ft/lbs Cap: 4 - 5 ft/lbs
Power Source	Field replaceable 3.6V 1 Ah lithium	Mounting Hardware Supplied	1/4-28, M6x1, or M8x1.25 stud
	battery pack (.35 gram lithium)		FCC ID: 2BKLG-WSCONNECT
Battery Life	4 years based on 2 readings taken per day at 20 °C	EMC Compliance	ISED: 21201-WSCONNECT CE
		Calibration Certificate	CW10
		SIL Rating	SIL 2

ConnectSens™ Wireless Overall Triaxial Vibration Sensor with Temperature Outpu

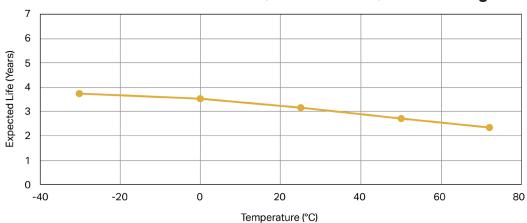


Example Frequency Response at 2 Hz - 5 kHz Frequency Range



Battery Information

WS101 Expected Life, Wireless Process Control Sensor, 10 Hz - 1 kHz, Two Readings Per Day



ConnectSens™ Wireless Overall Triaxial Vibration Sensor with Temperature Output



= 18 Hours

= 19 Hours

= 20 Hours

= 21 Hours **22** = 22 Hours

= 23 Hours

= 24 Hours

= 6 Hours

= 7 Hours

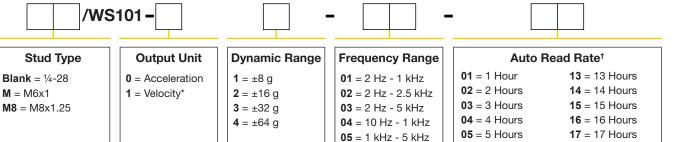
= 8 Hours

= 9 Hours

 = 10 Hours = 11 Hours

12 = 12 Hours

Ordering Information



Ordering Number	Frequency Range	Sampling Rate (Hz)	Reading Duration (s)
01	2 Hz - 1 kHz	6400	0.5
02	2 Hz - 2.5 kHz	12800	0.5
03	2 Hz - 5 kHz	25600	0.5
04	10 Hz - 1 kHz	6400	0.5
05	1 kHz - 5 kHz	25600	0.5

^{*} Compatible with 2 Hz - 1 kHz and 10 Hz - 1 kHz frequency ranges only.

[†] Achievable battery life depends on environmental conditions, configuration options, and sensor use. CTC recommends replacing the battery every 4 years, regardless of remaining battery life reported by software, due to effects of battery degradation over time. If operating above 50 °C, replace the battery in half that time.

ConnectSens™ Wireless Overall Triaxial Vibration Sensor with Temperature Output



Connectivity .

Connectivity

CTC WS100 sensors broadcast readings over **Bluetooth®** Low Energy 5.2, which can be picked up by CTC ACCESS360 wireless gateways. Complete your data collection route from your desk when utilizing a WS100 with a gateway. Each gateway can be used with an unlimited number of CTC wireless sensors within range, and allow for 20 simultaneous connections. ACCESS360 gateways connect to your plant's network via an ethernet connection to request a reading on demand.

ConnectView[™] Web App

CTC offers an easy to use web app that is included with the purchase of any ACCESS360 gateway. Key features include:

- Nickname sensors & assign sensors to machine groups
- Easily view and export data:
 - · Historical data & overall values for trending over time
- Set early warning and critical alert levels
- View battery life
- Web interface runs off of your local network you own your data and control your security. This means no recurring data fees when utilizing your local network.

Our API also allows OEM customers to utilize their own software to communicate with CTC ConnectSens™ Wireless Sensors via a CTC ConnectBridge™ gateway.

