

TECHNICAL DATA

Fluke 3561 FC Vibration Sensor and Fluke 3502 FC Gateway





EASE OF USE

Easy to install, operate, collect data and take maintenance actions without specialized training.

INCREASE SAFETY

Place in hard-to-reach or hazardous areas to continuously monitor key assets.

INCREASE UPTIME

Actionable data provides insights to increase the reliability of assets.

The Fluke 3561 FC Vibration Sensor makes predictive maintenance fast and scalable. Install this 10 - 1,000 hertz (Hz) wireless sensor and begin gathering data immediately. Use this sensor to remotely monitor dangerous or hard-to-reach places for three years. Be alerted to conditional changes with alarming based on the Fluke Overall Vibration Severity (FOVS) scale. Monitor vibration measurements to detect imbalance, misalignment, looseness and bearing wear faults. The Fluke Connect[™] system grades asset health from 37 machine categories, enabling you to decrease routes and improve uptime by giving you actionable insights.

Rugged hardware for multiple year use

The 3561 FC is compact and lightweight, yet IP67 rated and rugged enough to last in industrial environments.

Battery life provide 3 years of use.

Continuous overall vibration measurement (10–1,000 Hz) for acceleration and velocity for a wide variety of machines.

Remote monitoring

Use the Fluke Connect Condition Monitoring^{\rm TM} (FCCM) software from your computer or mobile device for remote monitoring.

Alarms and alerts

FCCM software uses the FOVS scale to grade the health of 37 machine categories and sends alarms to users' smart devices or computers within seconds of an abnormality.

Data Trending

View real-time and historical data in graphs. Use triaxial vibration trends and temperature data, along with alarms, to take maintenance action.

Connected reliability system

Using the Fluke Connect app, compare your vibration data with data from other portable or fixed Fluke tools, and create work orders against the measurement data. Build a reliable maintenance program with more than 80 Fluke Connect tools currently available.



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Prerequisite for vibration monitoring program

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Deployment Planning	In-App Set-up	Hardware Installation
Wireless Connection (Wi-Fi or mobile router)	BLE-enabled smartphone	3561 FC Vibration Sensors
	Fluke Connect app installed on smartphone	3502 FC Gateways

Use the Fluke 3561 FC Vibration Sensor to check these machine categories

Chiller

- Reciprocating (open motor and compressor separate)
- Reciprocating (hermetic motor and compressor)
- Centrifugal (hermetic or open motor)

Fans

- Belt-driven fans 1800 to 3600 RPM
- Belt driven fans 600 to 1799 RPM
- General direct drive fans (direct coupled)
- Vacuum blowers (belt or direct drive)
- Large forced draft fans (fluid film brgs.)
- Large induced draft fans (fluid film brgs.)
- Shaft-mounted integral fan (extended motor shaft)
- Axial flow fans (belt or direct drive)

Cooling tower drives

- Long, hollow drive shaft (motor)
- Belt drive (motor and fan all arrangements)
- Direct drive (motor and fan all arrangements)

Centrifugal pumps

- Vertical pumps (12' to 20' height)
- Vertical pumps (8' to 12' height)
- Vertical pumps (5' to 8' height)
- Vertical pumps (O' to 5' height)
- Horizontal centrifugal end suction pumps direct coupled
- Horizontal centrifugal double suction pumps direct couple
- Boiler feed pumps (turbine or motor driven)

Positive displacement pumps

- Positive displacement horizontal piston pumps (under load)
- Positive displacement horizontal gear pumps

Air compressors

- Reciprocating
- Rotary screw
- Centrifugal with or without external gearbox
- Centrifugal internal gear (axial meas.)
- Centrifugal internal gear (radial meas.)

Blowers

- Lobe-type rotary blowers (belt or direct drive)
- Multi-stage centrifugal blowers (direct drive)

Generic gearboxes

• Single stage gearbox

Machine tools

- Motor
- Gearbox input
- Gearbox outbox
- Spindles roughing operations
- Spindles machine finishing
- Spindles critical finishing



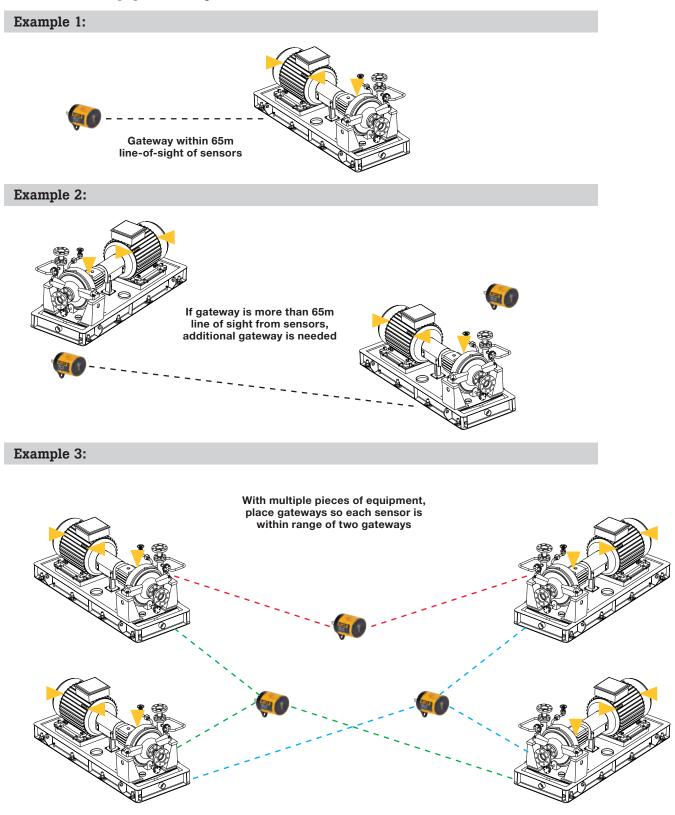
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Sensors and Gateway configuration

Multiple 3561 FC Vibration Sensors can connect to a single 3502 FC Gateway. The number of gateways needed for an install will be dependent on the location of the equipment being monitored.



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3561 FC Vibration Sensor

General specifications				
Range	Sensitivity range	±32 g		
	Frequency range	10 Hz to 1,000 Hz		
	Sampling rate	25600 Hz		
Temperature	Operating range	-30 °C to +80 °C (-20 °F to +176 °F)		
	Storage range	-30 °C to +80 °C (-20 °F to +176 °F)		
	Trending range	Displays temperature trends between -30 °C and +80 °C (-20 °F and +176 °F)		
Relative humidity	10% to 95% non-condensing			
Altitude	Operating	2000 m		
	Storage	12000 m		
Size	(H x W) 2.42 in x 0.95 in (61.5 mm x 24 mm)			
Weight	1.4 oz (40 g)			
Power	Battery type	3.6 V, 2400 mAh lithium		
	Battery life	3 years typical		
Bluetooth	Туре	Low energy 4.1		
	Range (during a session)	65 m, line-of-sight		
	Frequency range	2405 MHz to 2480 MHz		
	Output power	<10 mW		
	IP rating	IP67		
Warranty	1 year			

3502 FC Gateway

General specifications			
Temperature	Operating range	-25 °C to +65 °C (-13 °F to +149 °F)	
	Storage range	-25 °C to +65 °C (-13 °F to +149 °F)	
Relative humidity	10% to 95% non-condensing		
Altitude	Operating	2000 m	
	Storage	12,000 m	
Size	(H x W x L) 2.26 in x 1.55 in x 1.82 in (57.3 mm x 39.3 mm x 46.1 mm)		
Weight	1.2 oz (35 g)		
Power	AC input	100 V ac to 240 V ac, 50/60 Hz	
Bluetooth	Туре	Low energy 4.1	
	Frequency range	2405 MHz to 2480 MHz	
	Output power	<10 mW	
	Antenna	-3 dBm single antenna, omnidirectional	
Wi-Fi	Туре	802.11 b/g/n	
	Frequency band	2.4 GHz ISM band	
	Frequency range	2412 MHz to 2462 MHz	
	Output power	<100 mW	
	Security	WEP/WPA/WPA2	
	Antenna	0 dBm single antenna, omnidirectional	
Warranty	1 year		

Order Information

FLK-3561/3502 FC, Vibration Sensor Starter Kit w/SW, 5009268 FLK- 3561 FC KIT, Vibration Sensor Expansion Kit w/SW, 4978160 FLK-3561/3502 FC 3YR, Vibration Sensor 3YR Starter Kit w/SW, 5012640 FLK-3561 FC 3YR, Vibration Sensor 3YR Expansion Kit w/SW, 5012657 FLUKE 3502 FC, Gateway-EN,FR,DE, 4945034

Starter Kit includes:

Four 3561 FC Vibration Sensors, One 3502 FC Gateway, FCCM subscription for each sensor, epoxy, epoxy application instructions and Getting Started Manual.

Expansion Kit includes:

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Four 3561 FC Vibration Sensors, FCCM subscription for each sensor, epoxy, epoxy application instructions, and Getting Started Manual.

Visit

to get complete details on these products or ask your local Fluke sales representative.

Accelix. Connected Reliability.

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