

Solution-driven technology in the new Fluke 3562 Screening Vibration Sensor system

The Fluke 3562 Screening Vibration Sensor solution helps teams cover many machines and machine types with its batteryless sensors, long-range radio capability and cloud-based software.

The Fluke 3562 Screening Vibration Sensor has some unique features that give it powerful capabilities.

It has an ultra-long life, an ultra-long range, and it is an ultra-scalable solution.

Using real-time knowledge of asset health, teams can focus their time, effort, and money on the machines that need attention rather than on the machines operating normally. With easy implementation and minimal upkeep, these sensors help maximize plant uptime and increase maintenance program efficiencies.

Unique features in the Fluke 3562 solution

Here are just a few of the features that make the Fluke 3562 Screening Vibration Sensor system peerless:

- **Ultra-penetrating sub-GHz radio signal: Monitor more machines more efficiently.**
The long wavelength and sub-GHz radio communication allow the 3562 to communicate with a gateway over long distances up to 800 ft. away even through many common obstructions in industrial plants. This means fewer gateways are required throughout a facility. The longer, stronger signal reaches more machines in more places.
- **Ultra-long life: Perpetual operation and minimal upkeep.**
The 3562 vibration sensors utilize power generated from a machine and its environment through a Thermoelectric (TEG) harvester or Photovoltaic (PV) harvester rather than batteries, to deliver constant vibration monitoring, while eliminating the time and cost of battery replacement. The batteryless, wireless system is fueled by the Everactive® Edge self-powered circuit and networking technology, so it's easy to install and maintain. Maintenance teams can "set it and forget it" and focus on other tasks.
- **Ultra-scalable solution: Widespread coverage across a plant or portfolio of facilities.**
Extend vibration monitoring to a broader number of machines and machine types. The Fluke 3562 is geared for a wide application across a facility, bringing the majority of a facility's machines under a condition monitoring program's umbrella. As many as 1,000 sensors can be connected to a gateway.

In addition, the 3562 system operates on the LIVE-Asset™ Portal, the same software platform used by the Fluke 3563 Analysis Vibration Sensor system, meaning maintenance teams can monitor their assets from a single dashboard.

The benefits of condition monitoring

Using condition monitoring (CM), maintenance teams can reduce unplanned downtime while effectively prioritizing their time, money, and resources. Condition monitoring improves uptime while reducing maintenance and operation costs.

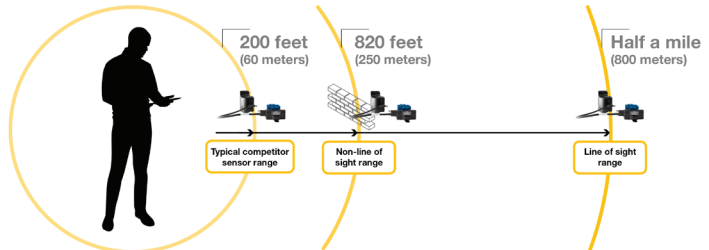
The Fluke 3562 solution captures data continuously, notifying maintenance teams of trends and changes that necessitate closer inspection and potential action to protect a machine. With early warnings of potential malfunctions, faults can be pinpointed, and corrective action can be taken before failure occurs.

The Fluke 3562 Screening Vibration Sensor system is a critical tool within the industry's most comprehensive condition monitoring solution set. Combining the 3562 with the Fluke 3563 Analysis Vibration Sensor system creates a robust condition monitoring program across a single plant or portfolio of facilities. When vibration monitoring can be done at scale, teams can optimize their maintenance and reliability.

Superior Wireless Communication Range

Most wireless sensors have a communication range of a couple hundred feet. The 3562 has a non-line of sight range of 800 feet and a line of sight range of half a mile. No other sensor comes close.

The long range means fewer gateways are required. Up to 1,000 3562 sensors can be connected to each gateway.



Harvesting Ambient Energy

With other wireless sensors, you have to change the battery—the 3562 has no battery to change, eliminating that task and cost.

Each 3562 harvests power from its surroundings to deliver constant monitoring.



Every 3562 is paired with a Thermoelectric (TEG) harvester. To generate enough power for the sensor, the TEG only needs **15°F or 9°C** of difference between the temperature of the surface it is on and the ambient temperature.

Lux is a measurement of light level intensity. The Photovoltaic (PV) harvester is an optional add-on and only needs **200 lux**.



There are indoor and outdoor PV harvesters. One is calibrated for fluorescent light and one is calibrated for sunlight.

Residential room:
50 lux



Cloudy day:
1,500 lux



Sunny day:
100,000 lux



everactive
edge

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