

muRata SPEAKS

TECHNOLOGY | SOLUTIONS | INNOVATIONS

Questions & Answers



1 Is the wireless sensing solution price based on a subscription model or one-time payment?

No monthly fee is required. The sensor nodes and gateway are one-time purchased. Any purchase of the evaluation kit which consists of sensor node and gateway on time purchased will come with a free of charge window application which features basic data visualization, data logging and threshold alert setting.

2 For a machine that is located more than 100 meters away, does it require multiple routers?

Yes, for distance over 100 meters, we would recommend user to consider multiple gateways or repeaters for wider area coverage. We will evaluate the actual site and use case condition and advise accordingly.

3 Is it possible to show or demonstrate the application software (Windows) mentioned?

Yes, we can demonstrate on how to connect the sensor unit to the gateway using the application software for data visualization purpose. Please contact us to schedule for a demo at your nearest convenience.

4 How long is the battery life span of the vibration sensor?

The duration of battery life depends on the operation mode of the vibration sensor and reporting time interval. In the case of 1TF vibration sensor, the data transmitting at:

- 30 mins – 9 months
- 1 hours – 1.5 years
- Once per day – 8.5 years

5 Do I need internet connection for the system?

Internal connection is not mandatory. You can start with any Murata wireless sensing unit, a gateway and stand-alone PC. In a situation where you would require the uploading of sensor data to a cloud server, we will need to check if the server is able to accept UDP protocol. Otherwise, protocol conversion will be required.

6 How many sensors can be connected to 1 Gateway?

Up to 50 to 100 sensors can be connected to a single gateway, depending on the data transmission interval as well as the types of sensors joined to the gateway

7 Do you have temp monitoring system where sensor is powered by rechargeable battery?

Our temperature and humidity sensors can provide ambient room condition sensing and our software is able to set alert thresholds accordingly.

Our T&H sensors are battery operated (2 x AA batteries) that can be easily replaceable.

In current moment, there is no function for "rechargeable" batteries. With the help of 3rd party system integrator customizations, temperature visualization dashboards can be achieved for you to have a complete "temperature monitoring system" where you can easily identify the heat build-up and excessive cooling spots in your area.

8 Can the sensor be integrated with ready installed PLC / Scada / OPC Server?

Possible, if the device has LAN connection and UDP acceptance, but the software/server must accept UDP communication, and some software customization might be required at end user side (e.g. data conversion; Hex to Dec and data store). Please consult the software/server vendor about these functions.

9 Can sensors connect directly to any WiFi routers?

In current moment, our sensors have to be connected to Murata's Gateway as it utilizes the sub-GHz proprietary radio communication protocol. However, it is possible to configure our Gateway to connect to your company's WiFi router.

10 Can the solution be connected to company's network?

Our solution is very versatile and can support either standalone system with PC and gateway directly OR configuring our gateway to send data through your company's IP network and to your monitoring PC. However, the monitoring PC must be in the same company IP network as well.

11 Will the sensors be able to diagnose and detect machine health condition / AI?

Our WSN solution is NOT designed for predictive maintenance. It is mainly used for condition monitoring where you are able to monitor the trend of your machine's condition and schedule for maintenance promptly before unexpected machine breakdown occurs.

12 How do I set threshold alert values for my machines?

For vibration sensors, we recommend setting these alert values using the international standard for evaluation of vibration in machineries which is under the standard called ISO10816-3. It is a table which indicates what velocity RMS threshold value to set based on your machines power rating and foundation.