



# Neuron Vibration

**Neuron Vibration is a robust wireless sensor that measure vibration level and surface temperature every other minute. The sensor is easily mounted on the object to be monitored with the embedded magnet. Integrated battery provides ten years lifetime.**

The combination of vibration and temperature is key to understand machine performance and condition. Data is transmitted to the Neuron cloud via Neuron gateway. Duplex communication enables change of sampling parameters, such as sampling frequency. The sensor is very sensitive and will detect imbalance, rubbing, adverse resonance, loose parts and more.

Comparing samplings over time and between related machines makes it easy to benchmark samplings and detect anomalies.

The sensor is very easy to set up in the dashboard scanning the unique QR-code with your phone. Set up alarm rules and receive immediate notice on SMS, push or email when something is going on.

Typical use cases:

- Anomaly detection and predictive maintenance
- Machine status and optimization
- Uptime hours and usage-based maintenance
- Structural health monitoring

## Advantages

- 👁️ **Wireless sensor with integrated battery**
- 👁️ **Immediate notice in case of anomalies**
- 👁️ **Very easy to install**
- 👁️ **Operates 10 years on integrated battery**
- 👁️ **Robust technology for demanding environment**

## Neuron Vibration



## Specifications

Part Number	422249
Measuring Range	0 - 12 g rms acceleration (sum of X,Y and Z axis)
Resolution	0.001 g
Measuring Frequency	80 ms every 2 minute
Measuring Range Temperature	-40 - 85 °C
Resolution Temperature	0.1 °C
Operating Frequency	868 - 870 MHz
Battery Type	Li-SOCI2 (3.6V)
Operating Time*	10 Years
IP Grade	IP67
Plastic Parts	Polyuretán
Operating Temperature Range	-40 - 85 °C
Detection Type	Acceration / Temperature
Dimensions DxH	36x26mm

\*Depends on measurement frequency and ambient temperature