OpreX[™] Asset Management and Integrity

Wireless solution for Industrial IoT (IIoT) Sushi Sensor

The Solution to Plant Asset Health Monitoring Enables Condition Based Maintenance

Features

- Industrial IoT (IIoT) sensor with excellent environmental resistance
- Easy plug & play installation, and easy setup via smartphone
- Two options of data monitoring: cloud and on-premises

Expected benefits

Efficiency improvement of field operation

- Transferring the field operators' knowledge and experience by quantifying and visualizing their work
- Making CBM easy and improving work efficiency of field operators by visualizing the equipment condition

Creating new value

• Enabling to improve the plant operation efficiency by monitoring equipment that has not been monitored in operator rounds

Sushi Sensor

Supporting plant equipment maintenance

- Performing detailed monitoring of an instrument that shows signs of abnormality
- Identifying signs of trouble by monitoring the trends of plant equipment conditions
- Preventing unexpected equipment failures and plant shutdowns improving the plant efficiency
- Maximizing investment in plant equipment maintenance



Co-innovating tomorrow™

Vibration and temperature sensor

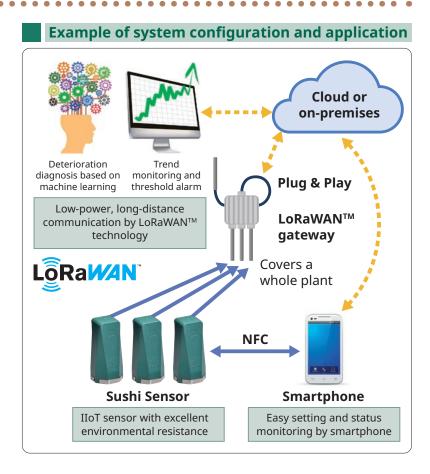
The first Sushi Sensor XS770A



XS770A Wireless Vibration Sensor

Usage

- Signs of abnormality, which are not easily detected in operator rounds, can be detected early by monitoring the trend of equipment vibration and surface temperature.
- Equipment at heights or hazardous locations can be monitored with the Sushi Sensor, helping to safeguard field operators by not having to visit such places frequently.
- This system makes it possible to use machine learning and AI. Maintenance plans are efficiently carried out by combining equipment condition data with AI and machine learning.



Specifications*

Measurement data	Velocity, Acceleration, Surface temperature		
Measurement axis	X, Y, Z axes and 3-axis composite		
Measurement frequency range	10 Hz to 1 kHz		
Measurement range	Velocity: 0 to 20 mm/s Acceleration: 0 to 130 m/s ² Temperature: -20°C to +85°C		
Ambient temperature	-20°C to +80°C		
Communication	LoRaWAN™		
Data update cycle	1 hour (typ.)		
Battery life	4 years (data update cycle: 1 hour) Battery replaceable		
Mount	Screw or magnet		
Degrees of protection	IP66/67		
Explosion protected type	Intrinsically safe: ATEX Approval IECEx (approval under pending)		
* Specifications may be changed	without prior potico		

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