

The Solution to Plant Asset Health Monitoring Enables Condition Based Maintenance

Features

- Industrial IoT sensor with long-range capability
- Easy plug and play installation with intuitive set-up
- Two options of data monitoring: cloud and on-premise

Expected benefits

Efficiency improvement of field operation

- Autonomous equipment data collection and digitization
- Transition to condition-based maintenance (CBM) with trend monitoring

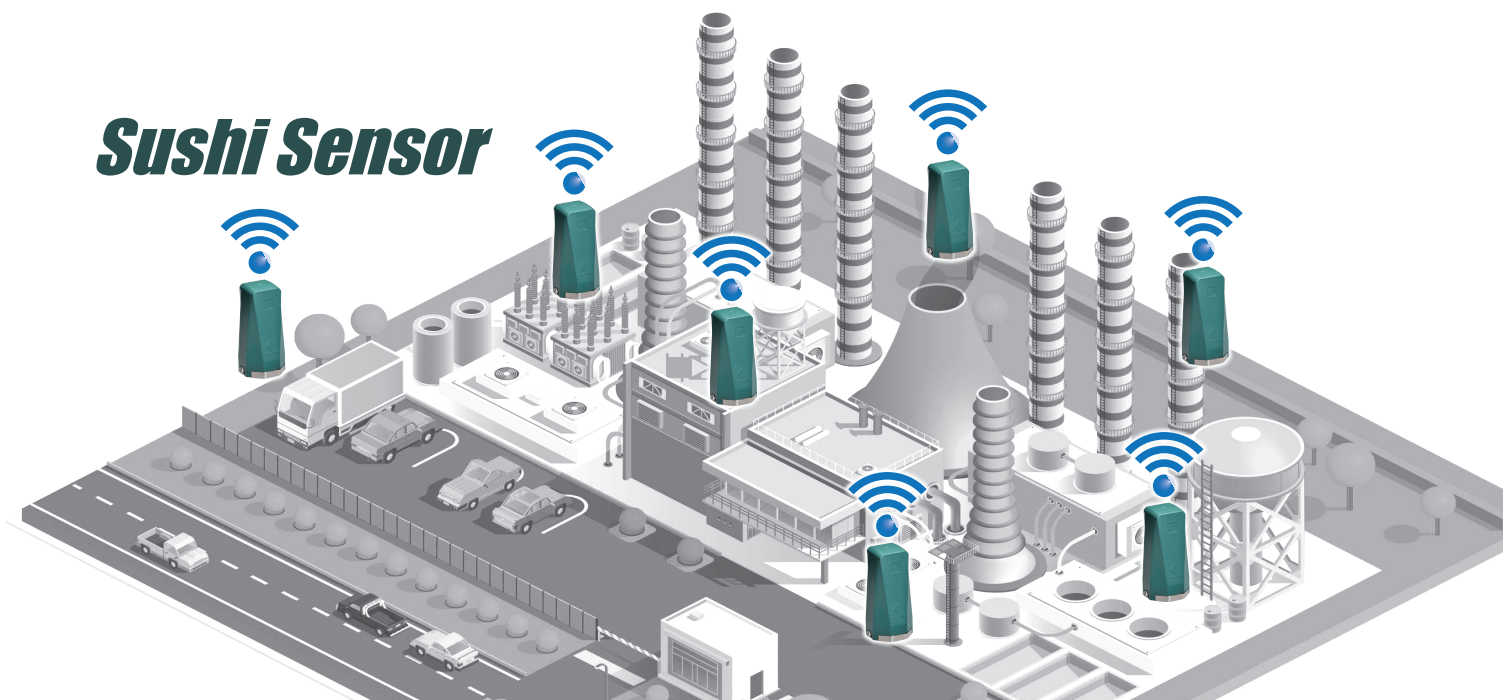
Creating new value

- Streamline plant operations and maintenance by monitoring non-critical equipment

Enhancing plant equipment maintenance

- Perform detailed monitoring of equipment that shows signs of abnormality
- Identify potential anomalies by monitoring plant equipment condition trends
- Prevent unexpected equipment failures and plant shutdowns, improving the plant efficiency
- Optimize investment in plant equipment maintenance

Sushi Sensor



Vibration and surface temperature sensor

The first Sushi Sensor XS770A



XS770A

Wireless Vibration Sensor

Width: 1.8" | Depth: 1.8" | Height: 3.8" | Weight: 0.57 lb

Usage

- Monitoring the trend of equipment vibration and surface temperature provides early detection of abnormalities.
- 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 develop efficient maintenance plans by combining equipment condition data with AI and machine learning models.

Sushi Sensor and Co-innovating tomorrow are either trademarks or registered trademarks of Yokogawa Electric Corporation. All other company brand or product names in this bulletin are trademarks or registered trademarks of their respective holders.

YOKOGAWA ELECTRIC CORPORATION
World Headquarters

9-32, Nakacho 2-chome, Musashino-shi, Tokyo 180-8750, JAPAN

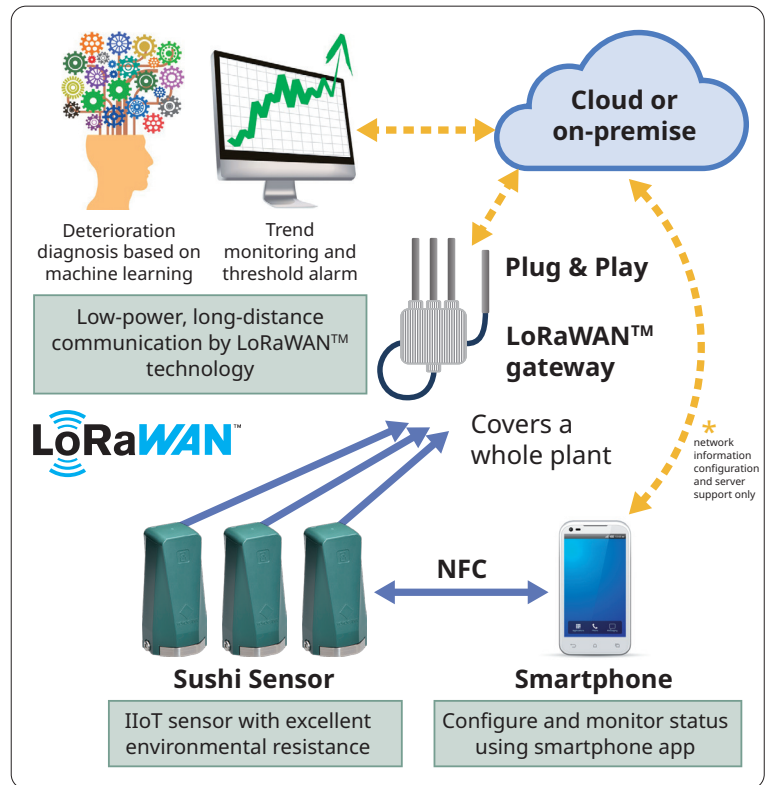
<http://www.yokogawa.com/>

YOKOGAWA CORPORATION OF AMERICA
YOKOGAWA EUROPE B.V.
YOKOGAWA ENGINEERING ASIA PTE. LTD.

<http://www.yokogawa.com/us/>
<http://www.yokogawa.com/eu/>
<http://www.yokogawa.com/sg/>

Subject to change without notice.
All Rights Reserved, Copyright © 2019, Yokogawa Electric Corporation.

Example of system configuration and application



Specifications*

Dimensions (WxDxH) Weight	1.8" x 1.8" x 3.8" 0.57 lb
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 (-4°F to +185°F)
Ambient temperature	-20°C to +85°C (-4°F to +185°F)
Communication	LoRaWAN™
Data update cycle	1 hour (typ.)
Battery life	4 years (data update cycle: 1 hour) Replaceable battery
Mount	Screw or magnet
Degrees of protection	IP66/67
Explosion protected type	Intrinsically safe: ATEX Approval IECEx (pending approval) FM Class 1, Division 2 (pending approval)

* Specifications may be changed without prior notice.

Represented by:

[Ed:02/b]

Printed in Japan, 910(KP)