

SENSPIDER

Fits right into control panel! Can be installed on Din Rail

SENSPIDER (SSP1000)

Edge computing device with 4 sensor interface card slots

Compact size: Width 5.9 in (150 mm)
Depth 3.3 in (85 mm)
Height 3.9 in (100 mm)



High-speed Vibration Sensor Interface (SSPC1310)

Connects up to 2 ICP-compatible vibration sensors

General-purpose Sensor Interface (SSPC1320)

Connects up to 2 current/voltage sensors

Temperature Sensor Interface (SSPC1330)

Connects up to 2 thermocouple (Type J or K), RTD or thermistor

4 Key Features of SENSPIDER

01 Flexible Sensor Deployment

- Supports up to 8 channels of analog sensors
- Choose any combination of 3 interface card types

02 High Sampling Rate (48KHz)

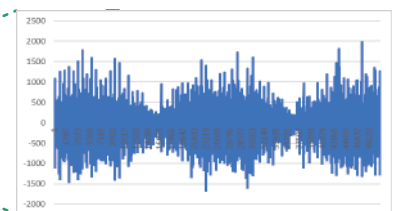
- Supports high-bandwidth vibration sensors
- Includes power supply and amplifier for sensors

03 Capture Data When You Need It

- Signal from external equipment
- Command from external software
- Threshold
- Date & time
- Cycle



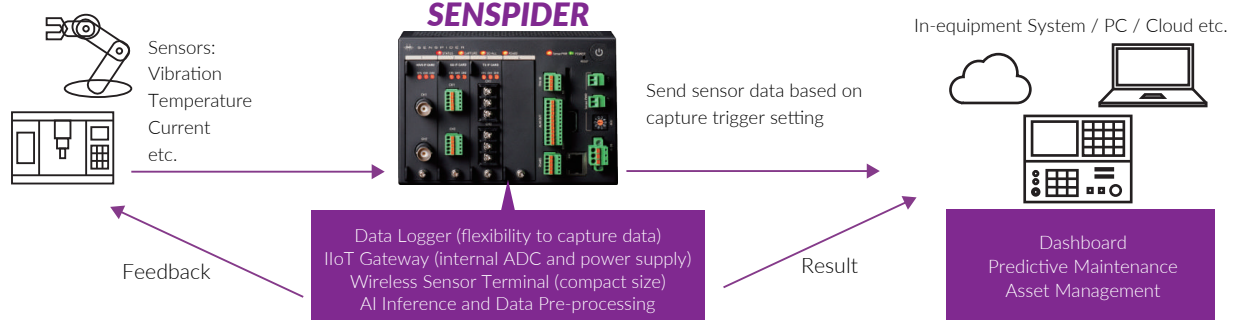
Data Selection



04 Run Custom AI Model on the Edge

- Senspider edge computing enables real-time anomaly detection
- Use Python SDK to run custom AI model and/or data-processing
- Improve model training by using multiple sensor data for multivariate analysis

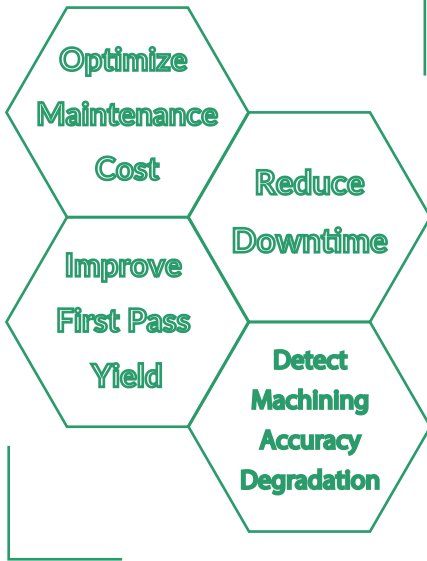
Developed by Macnica in Japan as a multi-function device to enable digital transformation in processes and products



Condition-based Maintenance (CBM)

Senspider helps you transition from traditional Time-based Maintenance to new Condition-based Maintenance which monitors the health of equipment with sensors and data analysis.

Goals



Applicable Equipment

Mission-critical assets with any rotation mechanism

e.g. machine tool, press machine, injection molding machine, semiconductor manufacturing eqent, industrial printer, large-size boiler/pump/compressor, centrifuge, cooling tower etc.

Applicable Parts and Modes

Bearing Damage/Wear Main Shaft Anomaly Shaft Unbalance

Ball Screw Failure Tool Anomaly/Chatter

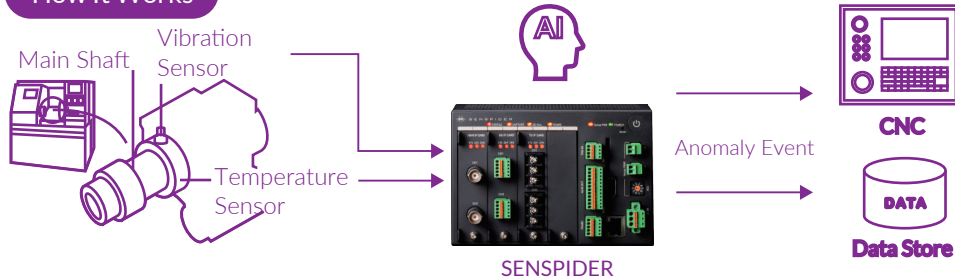


Case Study

Embedding CBM into Industrial Equipment

Added monitoring, anomaly detection and predictive maintenance features by installing sensors. SENSPIDER allowed the customer to reduce cost and shorten development time.

How It Works



CBM for Smart Factory / Critical Assets

Installed sensors on existing equipments and built monitoring system using the sensor data.

How It Works



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