



# FIELD system



CONNECT



MONITOR



THINK



DRIVE

## OMNI edge for FIELD system

### DESCRIPTION

**OMNI edge** for FIELD system monitors the lubrication and damage status of THK LM Guides in FANUC applications. A vibration sensor can be retrofit to existing LM rails easily. The sensor detects oscillations during specific movements which is triggered by FANUC CNC or robot controller. The detected oscillations are analysed into signals for lubrication and damage by unique algorithm in the THK amplifier. These lubrication and damage signals are plotted on the App dashboard within FIELD system.

FANUC application user, manufacturing line builder or its operator can set their own threshold for each status to generate alarm signals. Maximum 90 sensors per 1 FIELD BASE Pro will support the users near the manufacturing line for predictive maintenance. Furthermore, in combination with other FIELD system applications, currently under development, it will be possible to gain even greater benefits.

### KEY BENEFITS

- Time and money saved by applying Condition Based Maintenance to FIELD system connected devices.
- Easy to start with IoT by retrofitting vibration sensors.
- Maintenance work can be improved by combination of OMNI edge diagnosis results with other maintenance related Apps on FIELD system (e.g. optimisation of monthly lubrication or predictive maintenance Apps).

### KEY FEATURES

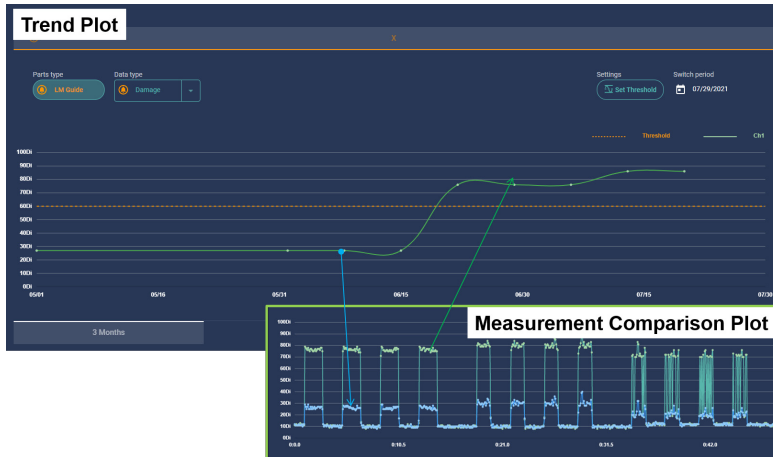
- THK amplifier can analyse the oscillation data of the sensors into signals for lubrication and damage status by its unique algorithm. THK's 50 years of experience with ball and roller bearings of all kind are included in this algorithm.
- To achieve significant dashboard, the users must measure the oscillation in same speed and motion programming. Normal resistor program setting for FANUC CNC or robot controller can achieve the significant dashboard.
- Especially for manufacturing line operator, maximum 90 sensors can be connected to 1 FIELD BASE Pro. (3 sensors per 1 THK amplifier. 30 THK amplifier per 1 FIELD BASE Pro.)

**OMNI edge for FIELD system**

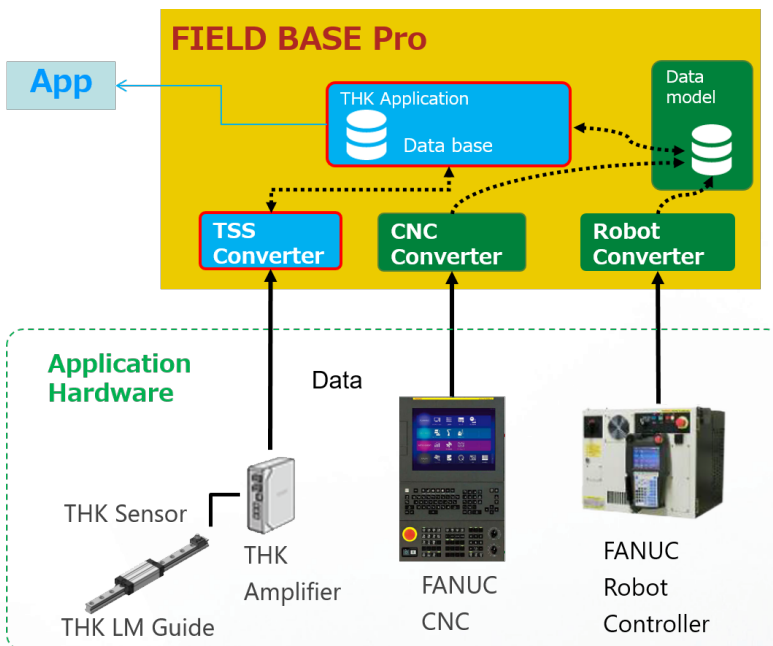


**APP PREVIEW**

**Dashboard**



**Data Flow**



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