

---

## **TMEIC Asia Launches AI-Based Smart Motor Sensor “TMASMS”**

---

TMEIC Asia Pte. Limited (hereinafter, “TMEIC Asia”) launched the Smart Motor Sensor “TMASMS,” which is an artificial intelligence (AI) based, high performance predictive maintenance platform for electric motors. Sales commenced from March 2022 under a Channel Partner Agreement with Analog Devices, Inc. headquartered in the United States. And TMEIC Asia completed the first delivery for PT.Bukhit Muriya Jaya with 25 set of TMASMS and started monitoring whole paper machine drives motors in April 2022.

Industrial factories use various kinds of motors, whereby the conditions of motors are being confirmed on a daily basis to ensure safe and stable operations at respective sites. Since monitoring the conditions of motors requires technical proficiency and experience, there was a need for a system that could replace manual operation by highly skilled experts for monitoring motors and analyzing conditions.

To address such customer needs, TMEIC Asia released the Smart Motor Sensor “TMASMS” for electric motors. Enabled by Analog Devices’ OtoSense® hardware and software solutions, TMASMS allows predicting motor failures at an early stage and contributes to stable operation of plants and factories by monitoring and carrying out analysis 24/7 through AI that will cover key diagnostic items, and in turn, predict what could be the cause of motor failure and present practical solutions on a dashboard screen. By entering into a Channel Partner Agreement with Analog Devices, TMEIC Asia will be able to expand the reach of this motor monitoring solution.

### [Product Features]

1. Equipped with AI machine learning process and does not require specialized knowledge
2. Detects 9 types of mechanical and electrical faults:
  - 1) Power System 2) Stator Winding 3) Rotor 4) Motor Shaft/Balance
  - 5) Eccentricity 6) Bearing 7) Alignment 8) Cooling System 9) Loose Foot
3. Quick and easy installation and setup. No wires, no Gateway required.
4. Applicable motor type: DOL / VFD driven, both IC411 and IC416 LV motors

TMEIC Asia will integrate TMASMS with PlantLogMeister (PLM), Motor & Drive control HMI and an online data gathering system (ODG), which TMEIC Asia is also marketing, to support overall customer plant operations.

TMEIC Asia Managing Director Kenichi Kato Comment:

“TMEIC Asia is very pleased to announce TMASMS has entered into a Channel Partner Agreement with Analog Devices and we are confident that TMASMS is able to support customers’ facility operations.”

Analog Devices Industrial and Multi-Market Platforms VP Jen Lloyd Comment:

“Analog Devices is excited to see TMEIC Asia deploying OtoSense in the TMASMS solution. This collaboration will open the door for many factory operators to have greater insight into their machine performance and improve their operations.”

**Solution**

## How it works

SecureMQTT | OTA Updates

**Connected App**  
Provisioning  
Notifications and alerts  
Motor status  
ADI OtoSense  
<http://otosense.analog.com/>

**On-Motor Issues Detection**

Power system	Eccentricity
Stator winding	Bearing Alignment
Rotor	Cooling System
Shaft	Loose Foot
Balance	

**Web Dashboard**  
Machine learning and adaptivity  
Fault detection  
Graphical visualization of performance

**TMASMS**  
Mounting Position

**TMASMS** ◀ Installed 25 set of TMASMS to whole paper machine drive motors



**Media inquiries:**

---

For further information, please contact PT.TMEIC Asia Indonesia

23E Alamanda Tower, JL TB Simatupang Kav 23-24, Cilangdak Barat

Jakarta Selatan 12430, Indonesia

Tel: +82-21-2966-1699; Fax: +62-21-2966-1689

Email : [tmsupport@tmeic.co.id](mailto:tmsupport@tmeic.co.id)

<https://www.tmeic.com/>

In order to respond to the needs of manufacturing sites that serve as a foundation for supporting society, TMEIC always sets its eyes on the future of industry, society and the environment as an industrial systems integrator striking a balance between the development of society and a beautiful global environment. TMEIC will contribute to manufacturing and environmental management through leading-edge technologies based on its core technologies of rotating machinery, power electronics and engineering.

OtoSense is a registered trademark of Analog Devices, Inc.