

PMWM® PREDICTIVE MAINTENANCE & WORKING MONITORING Device

PMWM® Technology

From a technology standpoint, it involves permanent installation of the sensors on the drive systems and the use of the resulting data as a key input to determine when to perform maintenance and which activities must be prioritized.

It is important to note that the PMWM® sensor is installed in a non-invasive way, and information may also be available remotely for analysis without a visit on site.

PMWM® Business Model uses

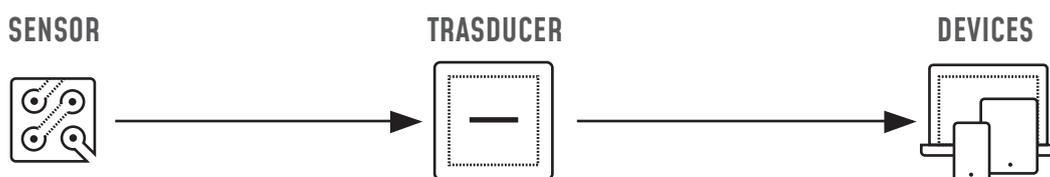
Temporiti Electromagnetic Brakes can be equipped with this device for any kind of drive system application.

PMWM® How Does It Work?

The idea behind the PMWM® sensor is that common and generic sensors provide only an on/off signal, while PMWM® can monitor the air-gap variation to guide a more efficient and effective maintenance of the drive systems.

PMWM® is able to recognize the air-gap value through a voltage signal coming from the sensor. Brake power doesn't affect the goodness of the signal.

Once the signal is ready from the transducer, all data will be available on laptop or mobile phone according to the customer request; predictive maintenance can be scheduled based on the data from the transducer.



PMWM® Why Does It Matter?

Customers who continuously expect better service at lower costs. The answer to this challenge is: safety, quality of maintenance and customer service can never be sacrificed. Using new business models, customers can use the PMWM® sensor to provide data to end users at lower costs, be more effective and provide a growing service through automated technology, such as app notifications.



PMWM® The Future

With the advancement of technology, it's clear the time has come for sensors' data and drive units monitoring to play a significant role in how we maintain, service and repair machinery.

PMWM® overview of brake operating conditions

- Small dimension for non-invasive change on drive configuration.
- Sensorless condition monitoring.
- Monitoring of critical conditions and errors prior to their occurrence.
- It can be used for a wide range of Temporiti Brakes.
- It can be quickly integrated inside the brake.
- At least 1 million cycles are guaranteed with brake standard operating (Temperature, humidity and below altitude of 1000m). If you need the sensor for particular environmental condition please contact our technical department.

PMWM® Data providing

- Using an evaluation program, the customer can see whether everything is running smoothly or whether there is work that needs to be done.
- Maintenance becomes plannable.

PMWM® Advantages

- It allows you to check operations in real time and, therefore, the reliability of systems and equipment.
- It allows you to reduce both management costs and the number of unplanned maintenance interventions, as well as the costs and frequency of repairs.
- It allows to anticipate the onset of faults in mechanical and electromechanical systems in which wear plays a decisive role.

The predictive maintenance carried out with the **PMWM®** device allows to increase the availability of the machines, to reduce malfunctions and breakdowns, while decreasing operating costs.

Increase of the Overall Equipment Effectiveness (i.e. the total efficiency of a plant).



More efficiency. More productivity.
More integration. More flexibility.

...ONE WORD,

PMWM®

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