



TecSonics™ Bearing Wear Monitoring System

A Revolutionary Approach to Transformer Oil Pump Maintenance

/// Overview

The TecSonics™ Bearing Wear Monitoring System is an advanced predictive maintenance tool designed to monitor the integrity of transformer oil pump sleeve bearings. Utilizing ultrasonic pulse technology it provides real-time wear analysis, reducing the risk of unexpected failures and costly downtime.

/// Why Choose TecSonics™?

Proactive Maintenance

Prevents unexpected failures and extends pump lifespan.

Enhanced Efficiency

Reduces operational disruptions and lowers maintenance costs.

Seamless Integration

Works with existing transformer oil pumps, eliminating the need for costly upgrades.

/// About Unifin

Unifin, a division of Wabtec Canada, Inc., specializes in electric equipment cooling solutions for power generation and transmission. With decades of expertise, Unifin is committed to providing cutting-edge technology that enhances reliability and performance in the energy sector.



/// Key Features & Benefits

Continuous Monitoring

Integrated electronics package mounted permanently on the pump for real-time bearing wear assessment.

Ultrasonic Pulse Technology

Measures the length of inserted transducers within the sleeve bearing, allowing for trend analysis to detect wear.

Wireless Connectivity

Bluetooth Low Energy (BTLE) 5.4 for seamless data transmission to iOS and Android devices.

User-Friendly Mobile App

- Free download from app stores
- View measurement history
- Export data in .csv format via email

Eliminates T-Box Rentals

Unlike the previous generation, the new system does not require a separate T-Box rental for monitoring.

IP68-Rated Enclosure

Ensures durability and reliability in harsh operating conditions.

Long Battery Life

Rechargeable battery with an expected lifespan of up to 10 years.

How It Works



Installation

The electronics package is permanently mounted to the transformer oil pump.



Data Collection

Ultrasonic pulses measure the transducer length and compare it to factory baselines.



Trend Analysis

If a reduction in transducer length is detected over time, it signals potential bearing wear.



Real-Time Data

The mobile app allows Users to access live readings and historical data.

For more information, contact us at 519.451.0310 or visit wabteccorp.com