

## REAL-TIME MONITORING

The primary benefit to installing Early Warning Sensors is to reduce equipment failures and the subsequent downtime and repair costs.

Real-time vibration monitoring of your gearbox and power train can be combined with particle and moisture sensors for “early” problem detection, so you can act to prevent costly breakdowns.

The Tan Delta sensor can provide an additional layer of protection and can help safely extend oil life by monitoring the chemical degradation and potential non-water contamination.

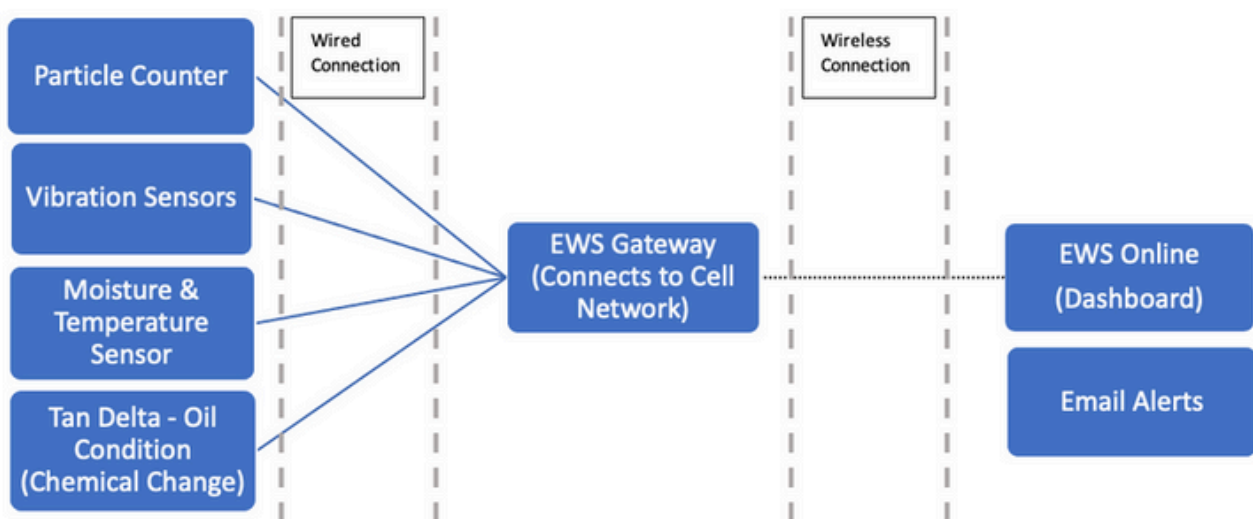
## CORE SENSOR TECHNOLOGY

We have 4 primary sensors for gearboxes;

- **Vibration** Simple and robust, providing a single value for overall vibration
- **Water/Moisture & Temperature** Relative Humidity
- **Metal Detection or ISO Particle Counters** In-Line, Real-Time
- **Oil Condition & Temperature.** Track molecular changes in oil electro-chemical signature to identify degradation & “End of Life”

## REMOTE MONITORING

The diagram below shows the full EWS system, providing email alerts when warning thresholds are passed. The online dashboard allows users to view the trends over time which can aid with investigating faults and gives piece-of-mind by showing live data. EWS can also provide monitoring or consultancy services.



CALL US FOR MORE INFO OR A QUOTE



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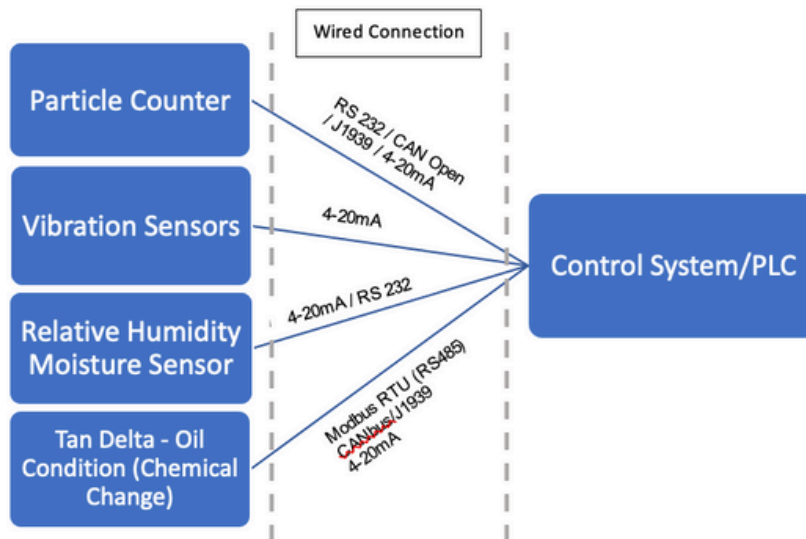


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# Early Warning Sensors: 24/7 Gearbox Monitoring

## LOCAL MONITORING

An alternative option is to wire the sensors into a PLC or Control System so the operators get a visual or audible alert when a warning threshold is passed. EWS can advise on how to implement this solution on a case-by-case basis



## EWS VIBRATION PACKAGE OPTIONS

EWS offers Sensor Packages which will cover most standard applications. Each package includes a 4-20mA Vibration Sensor with additional EWS sensors. If only one type of sensor is needed, let us know.

For Quote - Email [techsales@earlywarningsensors.com](mailto:techsales@earlywarningsensors.com) with Package & Data Choice

Package	Vibration	Particle	Moisture	Oil Quality	Remote Monitoring	Local Monitoring
GB-1	✓	✓	✓		Select	Select
GB-2	✓		✓	✓	Select	Select
GB-3	✓	✓		✓	Select	Select

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