



# Smart Condition Monitoring System

FOR COOLING TOWER GEARBOXES



OUR INNOVATION MOVES

Cooling towers are one of the harshest environments for power transmission equipment. Gearboxes and connected equipment are subjected to extreme temperature, humidity, and atmospheric corrosivity that contribute to component failure and unplanned downtime. Combine the environment with the fact they are often difficult to access, and it becomes clear that **remote monitoring is a must-have for these critical applications.**



The Rexnord Cooling Tower Smart Condition Monitoring System is designed specifically to withstand the harsh conditions of cooling towers. It uses proprietary algorithms to continuously compare sensor data against models of healthy drive operating conditions. Under abnormal conditions, contextual alerts are sent to a local visual display, your control system and the Rexnord Connect Portal so your team knows what action to take and when.

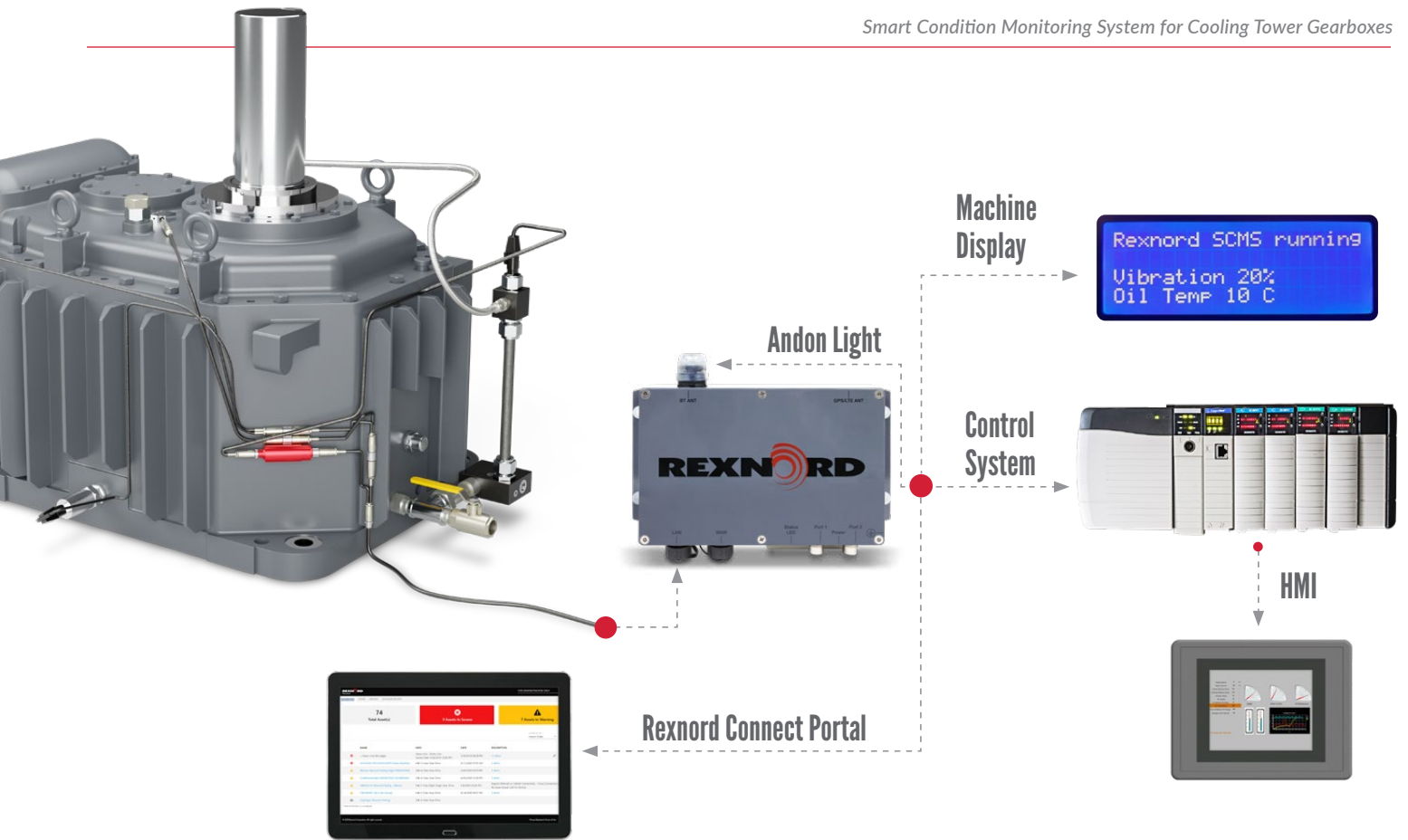
Abnormalities in oil quality, temperature and level, as well as system vibration are monitored by corrosion-resistant sensors mounted at the drive. The data can be integrated into your existing control system or accessed through the Rexnord Connect Portal, allowing you to make informed, real-time decisions. This information is critical to increasing uptime and reducing costs by avoiding unnecessary maintenance.

## SMART CONDITION MONITORING SYSTEM BENEFITS:

- **Reduce Costs** – Eliminate unnecessary maintenance costs such as unnecessary oil changes and scheduled route-based contracts.
- **Increase Uptime** – Early warning system to avoid unplanned downtime in critical cooling tower applications, for example “water in oil” detection.
- **Enhance Safety** – Allow personnel to see the health of your equipment from a distance rather than trying to access equipment in a cooling tower.



*Cooling Tower Smart Condition Monitoring Systems can be added to new or previously installed Falk CTA Gearboxes.*



**THE SMART CONDITION MONITORING SYSTEM MEASURES:**



**Oil Quality and Temperature**

Condition-based oil change recommendations are enabled through the monitoring of:

- Water content
- Oxidation
- Temperature
- Estimated oil life remaining



**Vibration**

Increase uptime by measuring system vibration to predict the risk of mechanical failure.



**Oil Level**

Unlike most industry-standard oil sensors which only indicate that oil levels are critically low, the Smart Condition Monitoring System provides actual oil level readings, providing additional insight into the health of your application.

**SPECIFICATIONS:**

**Notification**

- Andon light
- Local display
- PLC HMI
- Email alerts

**Communication**

- Local display
- LAN connectivity to PLC/DCS via EtherNet/IP, Modbus TCP, and PROFINET®
- Rexnord Connect Portal

**Environmental Rating**

- IP67

**Electrical Requirements**

- 85...264V ac, 50/60 Hz



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