

Add smart monitoring, increase productivity



With the Smart Condition Monitoring System for Falk Gear Drives, **get real-time, easy-to-understand alerts** to avoid issues — **at a fraction of the cost of unplanned downtime.**

Here is a summary of what the Smart Condition Monitoring System measures and what notifications you will receive based on those measurements:



Vibration Sensors

Placed in two key locations to detect:

- Misalignment
- Bearing issues
- Gear mesh issues

Motor Current

Low Speed Shaft Speed

Ambient Temperature

Oil Monitoring

- Water content
- Oil oxidation
- Oil temperature
- Oil life remaining
- Critically low oil alert

Display Name	Units	Action for Warning Alert	Action for Severe Alert
Oil Quality Alert	Hours	Schedule oil change soon	Shut down — change oil immediately
Oil Relative Humidity Alert	0-100%	Dewater or change oil/replace breather (oil relative humidity high)	Shut down — dewater or change oil/replace breather before operating (excessive oil relative humidity)
Severe Low Oil Alert	Binary (on/off)	N/A	Shut down — add oil immediately
Sump Temp Alert	F or C	Inspect/review operation — elevated oil temperature	Shut down — excessive oil temperature
Overall Vibration Alert	%	Inspect — elevated gearbox vibration	Shut down — excessive gearbox vibration, inspect/repair
Gear Mesh Vibration Alert	%	Gear mesh likely source of elevated vibration; inspect and repair if needed	Shut down and inspect gear mesh; repair if needed
Shaft Alignment Alert	%	Shaft alignment likely source of elevated vibration; inspect and repair if needed	Shut down and inspect shaft alignment; repair if needed
Bearing Vibration Alert	%	Bearing likely source of elevated vibration; inspect and repair if needed	Shut down and inspect bearing; repair if needed
Loss of Connection to the Cloud Alert	N/A	Cloud Connection Lost — inspect for Ethernet or cellular connectivity; if no problem found, call for service	N/A