

UP! Detect

Move from reactive to predictive maintenance

Digital
empowerment



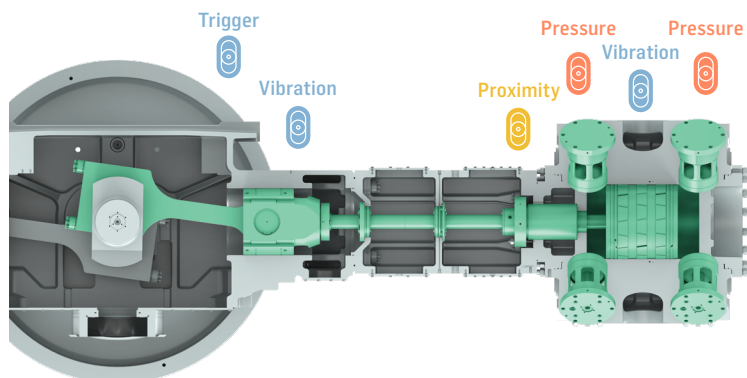
UP! Detect combines compressor expertise with cloud-based, modular monitoring to maximize the availability and efficiency of reciprocating compressors. Supporting both predictive and planned maintenance strategies, it uses AI anomaly detection to identify developing issues early, before they lead to costly, unplanned downtime.

Key features

- **Failure-based alarms:** Automated action recommendations on component level
- **Automated anomaly detection:** A neural network (AI/CNN) learns the compressor behaviour and detects deviations
- **User-friendly condition monitoring:** Intuitive interface for easy decision-making
- **Cloud-based access:** Access to performance data and trends
- **Data assessments:** Regular data reviews as part of our service agreements

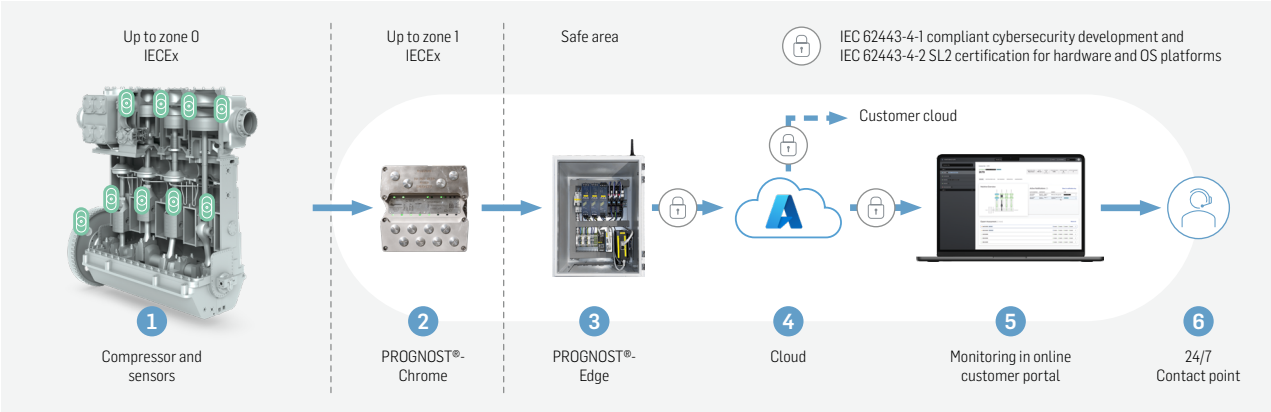
Benefits

- **Maximum availability:** Detect up to 90% of compressor operation anomalies and resolve issues quicker
- **Lower maintenance costs:** Extend mean time between overhauls by moving from a reactive to a predictive maintenance strategy
- **Safe operations:** Fewer surprises and minimized potential damages
- **Optimized maintenance:** Smoother and more predictable workflows



Modular monitoring system: selection of vibration, pressure and proximity sensors

From compressor to cloud – a secure, certified architecture



Unlock more visibility with every sensor add-on

Start with the vibration base and expand as needed with proximity and pressure sensors. Each add-on increases the fault coverage, making it easier to identify specific failure causes.

	Vibration base	Proximity add-on	Pressure add-on	Complete
Cylinder				
Cylinder issues (general)	● ● ○	● ● ○	● ● ●	● ● ●
Contamination detection	● ● ○	● ● ●	● ● ○	● ● ●
Leakages	● ○ ○	● ○ ○	● ● ●	● ● ●
Overpressure	● ○ ○	● ○ ○	● ● ●	● ● ●
Compression overload	● ○ ○	● ○ ○	● ● ●	● ● ●
Valve impact	● ○ ○	● ○ ○	● ● ●	● ● ●
Piston drivetrain				
Piston drivetrain issues (general)	● ● ○	● ● ●	● ● ○	● ● ●
Rider band wear	● ○ ○	● ● ●	● ○ ○	● ● ●
Piston rod movement	● ○ ○	● ● ●	● ○ ○	● ● ●
Piston drivetrain overload	● ○ ○	● ○ ○	● ● ●	● ● ●
Crosshead pin underlubrication	● ○ ○	● ○ ○	● ● ●	● ● ●
Piston rod nut & rod looseness	● ○ ○	● ● ○	● ● ●	● ● ●

● ● ● / ● ● ○ / ● ○ ○ Diagnostic confidence

Experience service excellence

UP! Detect integrates with Burckhardt Compression's world-class services, delivering tailored actions and expert support based on data-driven decisions. From 24/7 technical support to proactive recommendations, you can customize your service package to fit your needs. Whether it's optimized maintenance planning or fast on-site troubleshooting, UP! Detect ensures you always have the right expertise at the right time – maximizing availability with minimal effort.

