

John Crane Sense[®] Turbo



Protect
What
Matters.

Minimize
Downtime

Increase Mean
Time Between
Repair

Extend Useful
Seal Life

Optimize
Performance

Lower
Maintenance
Costs

The industry solution that
tells you what's happening
inside your compressor's
dry gas seals.

Featuring a unique combination of sensors
embedded inside the seal, **John Crane Sense Turbo**
delivers the in-depth insights that allow you to:

\$4
MILLION

SAVED

We helped a global LPG producer gain a deeper
view of their seal health, enabling them to reduce
unplanned shutdown time by eight days and save
an estimated \$4 million in lost production.

Discover How.



See Inside

A suite of sensors embedded inside the seal let you
monitor conditions at the heart of the compressor.

Liquid Sensor:

Uses light absorption to detect if
bearing oil (or other liquids) have
crossed the separation seal.

Temperature Sensors:

Two separate sensors detect issues
caused by local temperatures
inside the seal, including thermal
expansion/contraction.

Acoustic Emissions Sensor:

Detects seal face contact, lift-off
speed, and other high-frequency
vibration events.

John Crane Sense Turbo How Does It Work?

Sensors embedded directly into the dry gas seal send data to the system for
analysis. Seal health insights are then sent to your device for instant access.



Sensors Embedded In Seals

Wired sensors collect
the data on seal health



Data Acquisition Unit

All the data from
different sensors is
combined and sent
through the compressor.



Remote Cloud Servers

The packaged data is
sent to cloud servers for
analysis and storage.



Visualization & Notifications

Real-time visualizations
and alerts are sent to
your devices.

Data is encrypted at every stage to maximize security.

Putting the Right Data at Your Fingertips

Capturing a unique combination
of data from inside the seal,
John Crane Sense Turbo
provides the data you need
for every scenario.

1

Solve Problems Now:

Detailed data analysis and real-time alerts
help you identify and correct issues early.

2

Prepare for the Future:

Data analysis and pattern matching let you
determine remaining useful seal life to extend
time between or before a turnaround.

3

See the Bigger Picture:

Machine learning identifies thresholds to provide
richer insights into seal health and context into what
might be impacting performance.

Part of the John Crane Sense Platform:

John Crane Sense Turbo is part of our broader digital platform that's built upon:

over
850k
hours

of dry gas seal
monitoring

over
550k
hours

of wet gas seal
monitoring

over
100
years

of mechanical seal
expertise

Get in Touch:

Discover how John Crane Sense Turbo can transform your approach to asset monitoring:

Contact John Crane Today

Launched globally, except for Europe. European launch expected in January 2025.