

Listen to your equipment's heartbeat to beat downtime.

LOCTITE Pulse Smart Leak Detection

Even though your industrial equipment doesn't have a heart and soul, it still has a pulse. Millions of tiny signals, giving you invaluable information about imminent risks, health status and maintenance needs: all you have to do is listen.

Common Industry Pain Points

- Leakages cause unplanned downtime and thus significant costs.
- Manual inspection of critical flanges as well as their repair cause significant personnel and material costs.
- Undetected leaks can lead to catastrophic failures and present a significant safety risk.
- Leaks of critical media can result in significant environmental and reputational damage.
- Manual inspection and documentation lead to low transparency about weak points and hamper optimisation.

Benefits of LOCTITE Pulse

Reduced Unplanned Downtime. An instant response to the leak lowers clean-up and repair efforts, saves man-hours, and reduces cost-intensive downtime.



Reduced Manual Inspection and Documentation of Critical Flanges. Reduce manual inspections and repair efforts thanks to continuous monitoring.



Increased Plant Safety. An immediate reaction to a leak lowers the probability of accidents that cause damage to the plant itself or even maintenance personnel.



Increased Sustainability. Repairing a leak quickly reduces the likelihood of environmental contamination and, subsequently, damage to your image.



Increased Transparency. Digital documentation of the maintenance history of flanges and their leakage history provides additional transparency about maintenance quality. It also allows improved measures to be introduced to increase plant performance.



Predict your equipment's next move – with LOCTITE Pulse.

LOCTITE Pulse is an Industrial Internet of Things (IIoT) Solution designed to contribute to your plant's reliability. It supports your existing control mechanism in order to increase plant safety, productivity and uptime. Across multiple assets and manufacturing brands – in one single platform!



② **Data transmission and analysis**

SELF-SUFFICIENT
No local power supply needed thanks to battery power with a service life of up to 5 years

INDEPENDENT
Independent of local network thanks to cellular communication

ROBUST
Robust design for indoor and outdoor use

SAFE
ATEX Protection



① **Always-on monitoring of critical flanges**



③ **Provision of information optimised for user needs**

INNOVATIVE
Novel, patented carbon nanotube technology that supports quick detection of hydrocarbon leaks

PEACE OF MIND
Secondary containment can slow down the leakage and gives time for planning the repair

ALWAYS-ON
Continuous reporting of equipment status – 24/7, 365 days a year

RELIABLE
Robust, consistent, and hydrocarbon-specific signal generation

NON-INTRUSIVE
Retrofit installation during operations

INDEPENDENT
Web-based platform independent of end device or operating system

ONE-STOP SOURCE
All LOCTITE Pulse solutions are integrated into one system

ACCESSIBLE
Access the web-app and information from anywhere

USER-FRIENDLY
Simple and intuitive handling

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