Trisense

Reduce your CO2 footprint with IIoT CUI monitoring

CirruSense by Trisense helps you optimize your maintenance plans to become more sustainable. By localizing wetting in your piping structure with high accuracy, you are able to replace only the cladding and insulation that is prone to water intrusion.

Today's catch-all approach is far too wasteful

Conventional CUI management approaches, such as periodic or risk based inspections, involve regularly removing all cladding and insulation in order to inspect and, in some cases, repair the piping. Typically, 90% of the removed cladding and insulation reveals dry, unaffected piping.

Not only is this a considerable cost to your budgets: Removing and discarding unaffected, healthy cladding and insulation just to acquire newly produced replacements incurs a massive cost to our environment.

Plan better to waste less

With CirruSense, you will know exactly where water intrudes the cladding. This allows you to remediate that exact section of the cladding and insulation while repairing the piping within.

With optimized maintenance plans informed by CUI sensor data, excess waste from CUI maintenance is a concern of the past.

Improve sustainability with accurate insights

The insights gathered and presented in CirruSense can help boost your sustainability efforts.

- Continuous monitoring of actual wetting conditions

- Measurements enriched with weather data

- User friendly dashboards

- Actionable insights
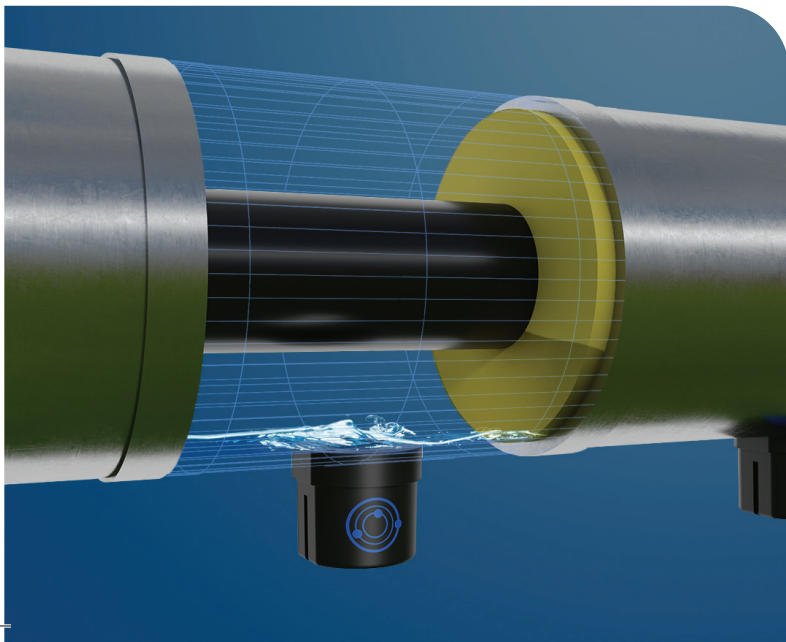
Why CUI monitoring?

With conventional CUI monitoring, contributing factors such as piping age, coating and wall thickness as well as process temperature are analyzed to inform maintenance plans. What is not included in this analysis is the most impactful factor: actual wetting levels.

Data driven maintenance plans

Using CirruSense, you will know both the duration and extent of wetting on your different assets. You will also understand where wetting is caused by rain, and where water is able to desiccate during hot periods. Alerts about new water intrusions are delivered as soon as an anomaly is detected.

With this knowledge, you can confidently optimize maintenance planning based on the real state rather than assumptions.

Four-fold value creation

- Mitigate risk of incidents with IIoT CUI prediction

- Reduce cost by optimizing maintenance resources

- Save climate impact by avoiding waste from unnecessary replacements

- Optimize energy usage by replacing wet insulation

Measurements

Enrich

CirruSense CUI

Insights

Act

Optimal plans
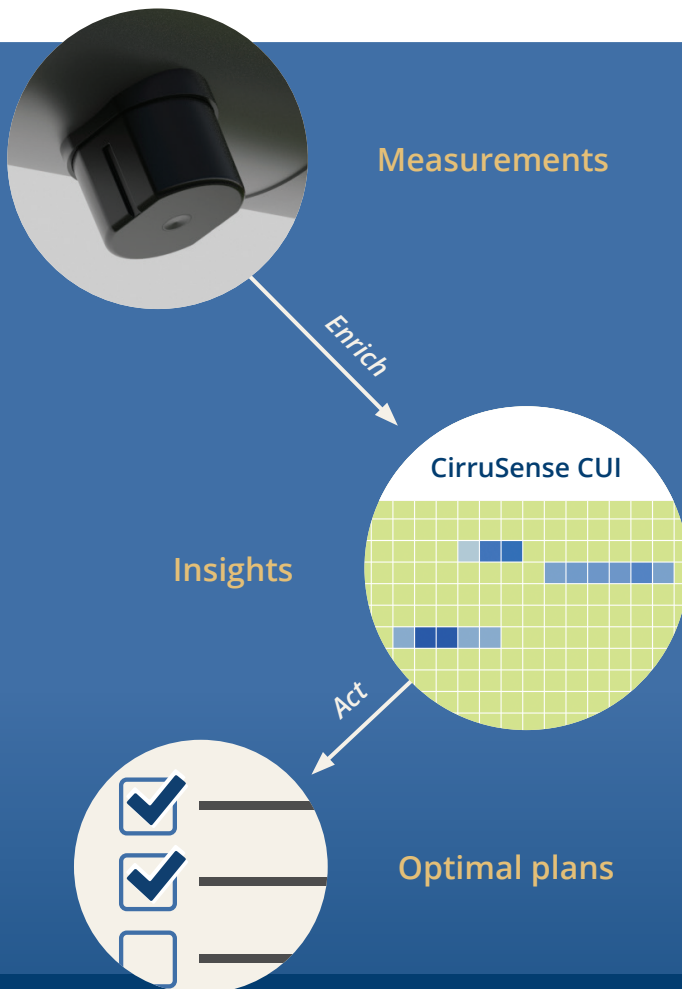
Our CUI sensors are mounted through the cladding of insulated piping to detect water at or in the vicinity of the sensor. Using cellular technology, the measurements are transferred to the CirruSense platform where it gets structured, enriched and presented in our web-based dashboard to provide an instant overview of your entire plant, with the ability to drill down into the details. The whole CirruSense solution is acquirable as a subscription service.

Fusion 310 Sensor

- Temperature, RH, surface wetting
- Cellular connectivity without gateways
- Quick sensor installation with NFC
- 15+ years of battery life
- Ex II 2G Ex ia IIC T4 Gb -40°C≤Ta≤+80°C

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