

PREDICTIVE MAINTENANCE: ERA-INTELLIGENT COUPLER SYSTEM (ICS)



Predictive Maintenance: era-Intelligent Coupler System

Maintenance measures and their intervals only take place at defined times → Damage is not detected in time over long period of time. **The Problem:** This can lead to the electrical coupler having to be completely replaced!

- Sensors are integrated in the contact carrier and in the coupling
- Data sets are obtained from measurements from which a feedback (signal) is then generated as soon as it becomes apparent from the evaluation that a limit value has been exceeded
- Other types of sensors are available on request and can be designed according to customer requirements
- Sensors can be installed in all coupling types
- Software will be customizable

→ No time-consuming and expensive troubleshooting anymore

→ Time, personnel and repair cost savings

era-ICS: Permanent function monitoring of system components and wearing parts for demand-oriented display or prediction of necessary maintenance tasks

· **Water ingress**

→ The sensors of the era-Intelligent Coupler System measure water inlet in real time

· **A/V position (contact wear)**

→ A/V: The sensors of the era-Intelligent Coupler System measure the distance and the angle between both couplers in real time

· **Malfunctions of condensation due to incorrect human usage at extreme temperatures or malfunctions of the heating elements**

→ The sensors of the era-Intelligent Coupler System measure the air humidity and the temperature difference between the inside of the housing and the environment in real time.