

## Condor Corrosion Monitoring System

### Overview

The rectification cost of closed-loop heating and chilled water system failure or unplanned maintenance caused by corrosion can run into the tens of thousands of pounds.

By identifying the presence and potential for corrosion, Hevasure's unique monitoring technology alerts building owners and facilities managers to the development of a corrosion problem, allowing issues to be resolved before they become more serious.

Monitoring throughout a closed-loop system's life, ensures design life is achieved, efficiencies are maintained, and unplanned downtime is avoided.

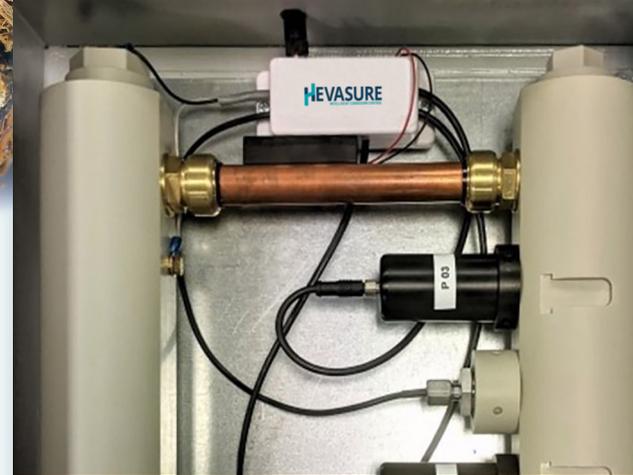
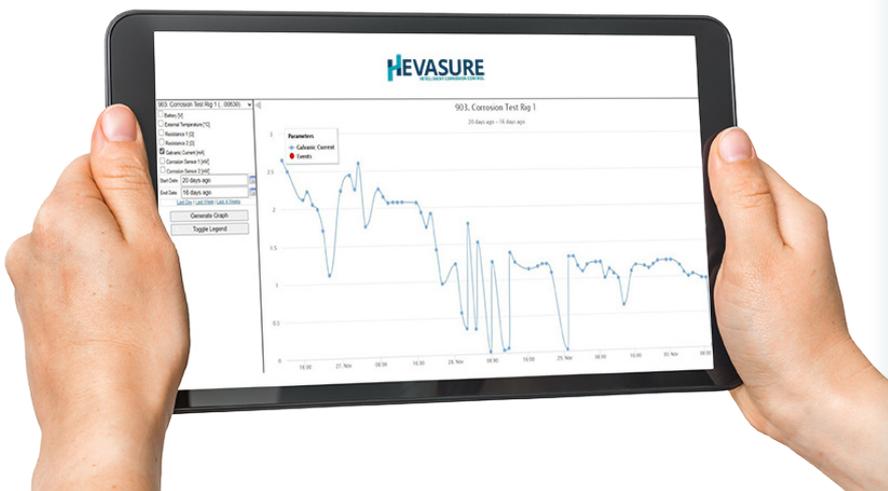
Hevasure Condor corrosion monitoring technology delivers the most comprehensive and cost-effective solution to ensuring healthy heating and chilled water systems.

The early detection of corrosion in a range of metals alerts responsible parties to corrosive conditions, allowing further testing and maintenance activities to be scheduled before any significant damage occurs.

Cloud-based data storage, together with a sophisticated dashboard and reporting tool, enables maintenance teams to confidently check the health of their expensive assets, anytime, anywhere. Automatic alarms (via email or SMS) provide notification when intervention is required.

In large buildings, multiple Condor monitoring systems can be used, all communicating to a single gateway.

The battery powered Condor unit is simple to install requiring only connection into the flow and return pipework. It can be fitted to new systems or retrofitted to existing ones.



### What We Monitor

- Galvanic currents (converted to general corrosion rate of steel)
- Crevice corrosion of steel and copper
- Pitting attack on steel, copper
- Temperature
- Pressure (optional extra)

### How We Monitor

- Data captured typically every 15 mins and stored in the 'cloud'
- Data viewable on any internet enabled device via a web interface
- Automated alarm functions with e-mail and SMS messages direct to users
- Long term trend identification
- LoRa radio frequency transmission to GSM gateway allows penetration through walls and over long distances

### Benefits

- Reduces unplanned downtime due to corrosion
- Provides reassurance that systems are maintained and operating in peak condition
- Helps ensure systems do not degrade thereby, saving energy and carbon footprint
- Provides hard-data over lifetime of system
- Reduces need for sampling and routine site visits

### Technical data

- Max operating temperature: 82 °C
- Maximum System Pressure: 5 Bar
- Suitable for use with inhibited water or glycol