

## Risycor in problem systems ?

The protection of heating and cooling installations against the formation of corrosion sludge and associated problems are explained in detail in the Risycor application guideline. The emphasis is on prevention at three levels: minimal, optimum and ideal protection. But Risycor can also be used as a diagnostic tool for troubleshooting in problem systems.

### Risycor identifies problems at an early stage and thus prevents unnecessary damage and expense

The Risycor warns when the corrosion rate exceeds the critical level of  $24\mu\text{m}/\text{yr}$  and therefore prevents problems with corrosion, just like a smoke detector warns of a fire. The cause of the oxygen ingress must then be identified and stopped. TT21 Quickscan and all our Risybasics, RisyCards, Risychecks, webinars and Wikisis can be of service in this regard.

### If there is a fire you must extinguish it

In a system that is known to have corrosion problems you don't need to install a Risycor to tell you that there is a problem.

However by installing Risycors in accordance with the Optimum or Ideal protection level it is possible to locate the point at which oxygen is entering the system ( e.g. a failing risk circuit or risk component)

**Note:** Some problem systems may exhibit extremely high corrosion rates which means that the probe may expire in a short period of time. ( At a corrosion rate of  $480\text{Qm}/\text{y}$  the probe would last 1 month) In such systems the source of the problem needs to be found very quickly to prevent catastrophic failures. In comparison the cost of the Risycor and the probes will be insignificant.

### Problem Diagnosis

For example, by installing two Risycors, one on the inlet and one on the outlet of a risk circuit or risk component it can be demonstrated whether there is oxygen ingress at that location (in the Resus pc Dashboard the curves of both Risycors can be superimposed to help with comparison).

The Risycor+ type PCXI, which logs system pressure in addition to interval temperature and corrosion rate, is a valuable aid in diagnosing problems.

In the future, RISYLOG (diagnostics in problem installations) and RISYPILOT (automated problem diagnosis and solution) will complete our range.

### Hard evidence

Once the cause has been identified and corrected, the drop in the corrosion curve of the Risycor will become apparent and proof that the problem has been resolved can be presented.