

### **Study of the university college “Karel de Grote-Hogeschool” confirms accuracy Risycor**

In March 2011 the study group “Energie en Duurzame Ontwikkeling” (= “Energy and Sustainable Development”) of the university college Karel de Grote-Hogeschool was given the assignment to study the behaviour of the Risycor sensor in a familiar and controlled environment. The corrosion rate of this sensor is compared to the high-tech leading brands reference sensors. The continuous corrosion measurements of the latter are a basis of verification for the Risycor tests.

The end report, based on 25 measurements, collected over a two-year time span, under a great variety of circumstances, was written in February 2013. It clearly reveals that the Risycor measures the corrosion rate much more accurately than the reference sensors.



### **Risycor field tests**

Early 2012 Resus started to conduct intensive field studies. The purpose of this study is twofold. On the one hand, collect as much information as possible about healthy and sick central heating systems. On the other hand, put theory into practice by testing the sensor in real operating conditions.

Conclusions of the study;

- The causes of corrosion observed in the tested installations are varied.

However, some things stood out, such as:

- Nowhere the corrosion was the result of design errors.

- Many problems were related to:

- Insufficient observance of the instructions.
- Lack of follow-up or maintenance.
- Wrongful start-ups.
- Bad pressure maintenance.

- There are still open expansion tanks!

We noticed large, combined expansion and degassing systems, which are permanently taking in large quantities of oxygen during the degassing process. This should be further investigated.

- There is a wrong assumption in the market. People think techniques have improved so much that they will be warned on time about impending problems (like it's the case with a car or a computer, for example). There is a clear need for an “early warning system” concerning hydronic problems.



#### Market introduction forecast

The first series production of the Risycor X is now completed. All produced appliances are still intended for the field test programme. The commercial launch of Risycor X is planned for July 1<sup>st</sup>. The Risycor S is scheduled for introduction at the end of the year.