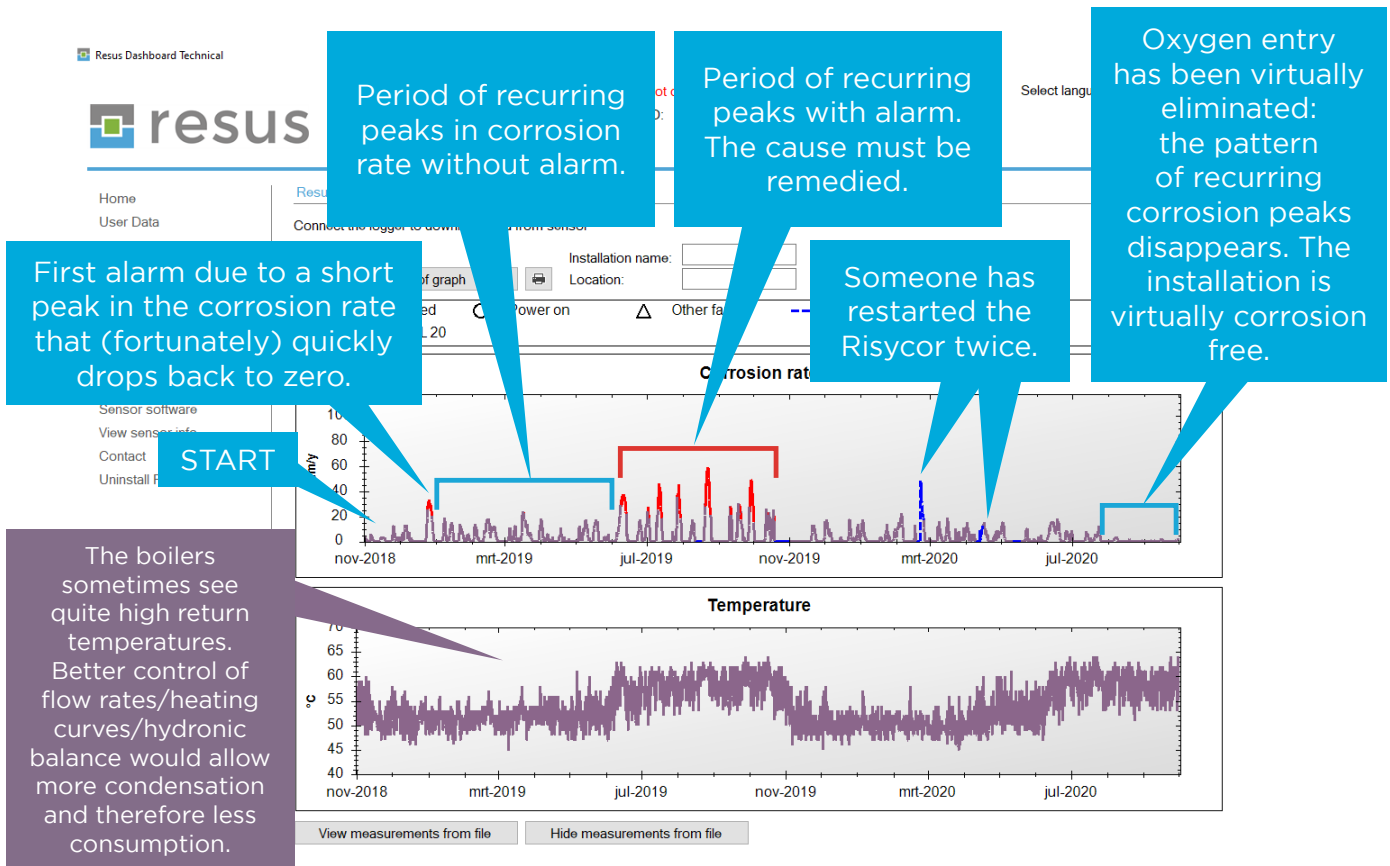


# Does a Risycor require maintenance?

No, but the installation must be maintained predictively using the Risycor. If necessary, the Risycor gives an alarm. The user must then take action (see manuals and application guidelines).

Read out the memory of the Risycor at least once a year to be able to interpret/analyze the corrosion behavior of the installation (see manuals and application guidelines). After all, it is possible for an installation to corrode slowly but constantly at a rate that is just below the corrosion alarm (24 µm/year). The Risycor will then never sound the alarm, but in such a case a lot of corrosion sludge can still be formed in the medium term, which is not desirable.

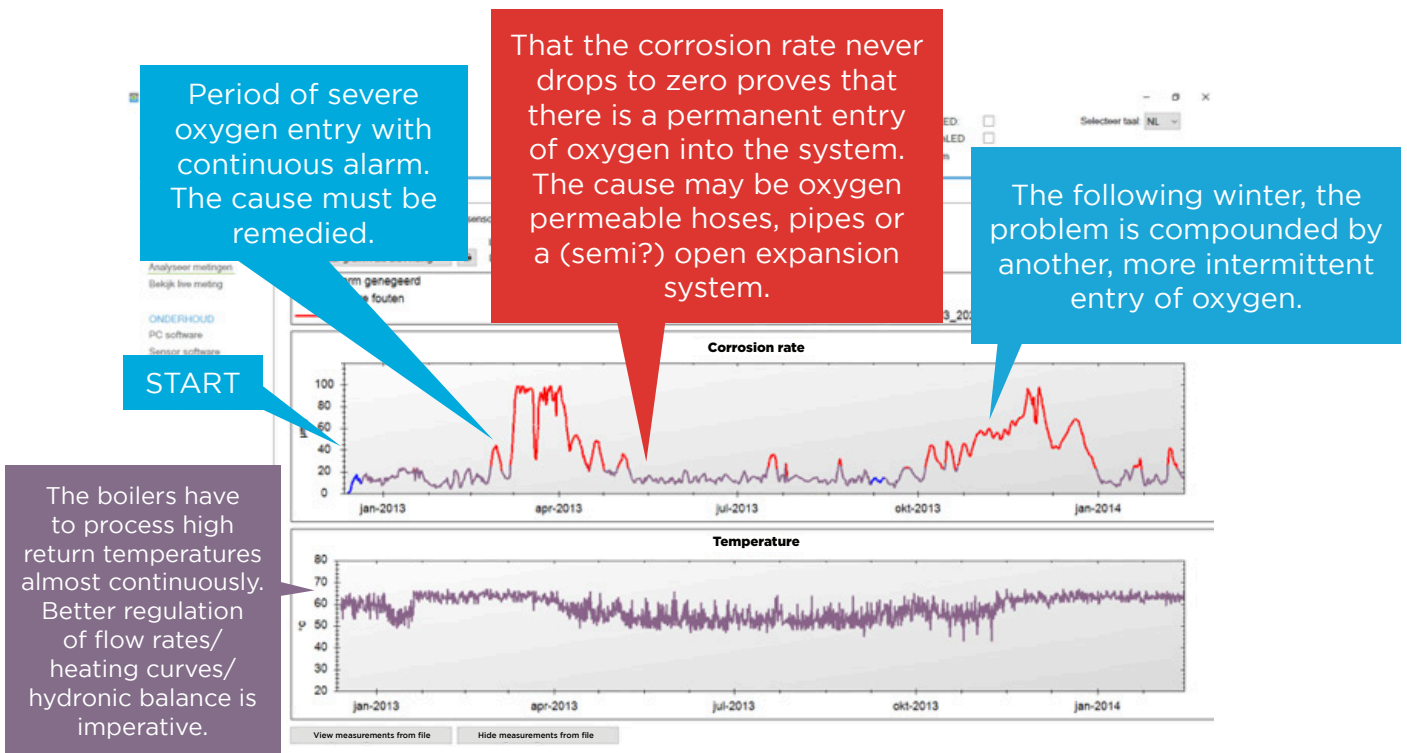
Corrosion peaks occur under the influence of oxygen entry, but if these do not last long and quickly fall back to zero or very low values, then there are at least periods where the installation hardly corrodes.



This is the profile of the corrosion rate of an installation over roughly two years. Despite a “worrying” summer in 2019, the installation has been in good shape since summer 2020.

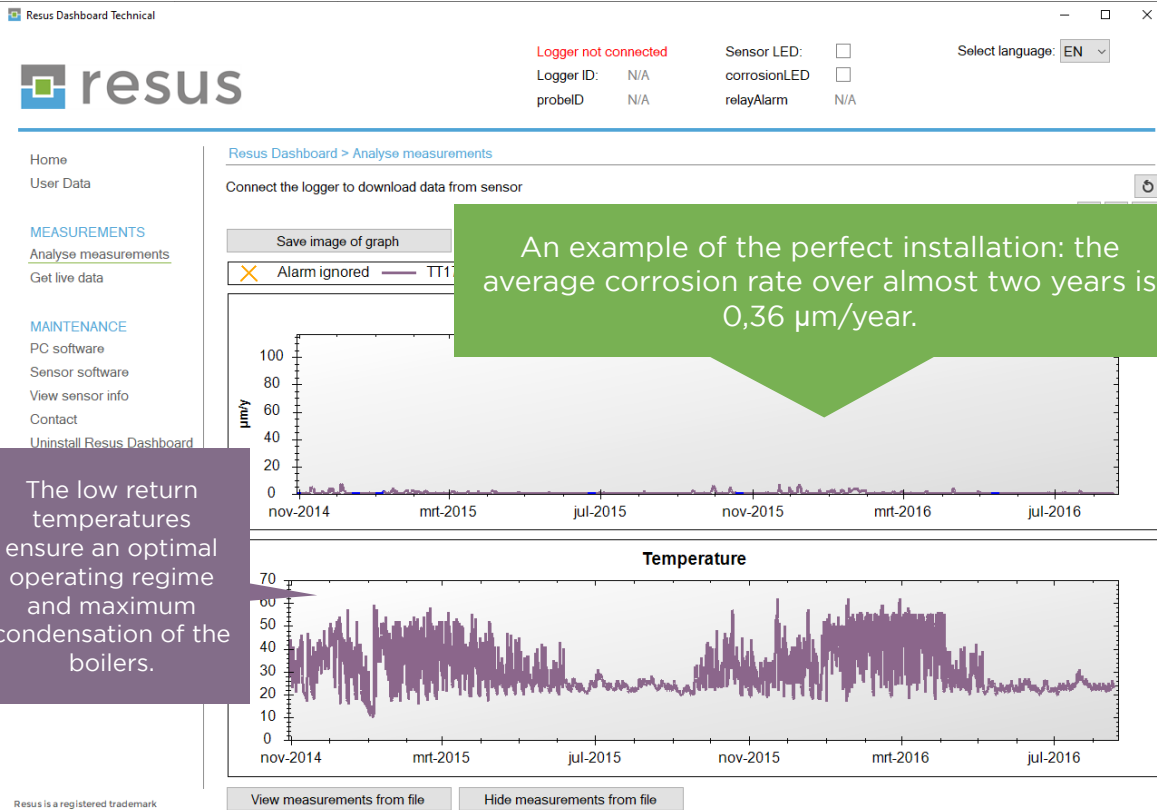
Of course, we prefer to see the corrosion peaks as low as possible and occur as infrequently as possible. If the corrosion rate regularly drops close to zero then that is obviously good news for the life of the installation.

If the corrosion rate remains on average high, it means that there is some form of “permanent” (or continuous) oxygen entry (e.g. diffusion through rubber hoses or non-oxygen-tight plastic pipes). We can then speak of a kind of “high level base corrosion”, which is of course detrimental to the life of the installation.



This is the corrosion rate profile of an installation over a little over a year. It shows two periods of seriously increased corrosion rate (thus excessive oxygen entry) and an inadmissible base corrosion.

The perfect installation does not show any corrosion peaks. There is no entry of oxygen and thanks to the low conductivity of the system water, any corrosion is extremely slow.



This is the profile of the corrosion rate of a top installation over almost two years. The curve NEVER exceeds 7  $\mu\text{m}/\text{year}$ .