



SMARTset: Water Leak Detection

Mitigate risk of costly water leaks by using a SMARTset monitoring and alarming solution



Background

Water leaks are not a new phenomenon. Mankind has been transporting water for over two millennia and whilst the techniques and materials used have improved immeasurably since the Romans built the Pont du Gard, it's fair to say that they remain a significant issue across the globe.

In the UK water leakage is now the costliest and most common insurance claim made by commercial customers, with annual total losses of over GBP 750 million.

Problem

Whilst the ideal solution is prevention, the reality is that is simply not possible in most environments and therefore risk mitigation through continuous monitoring is required.

Insurers are often now asking for risk assessments to be performed, with water leak detection increasingly being a requirement for full cover or giving a consequent premium reduction.

A simple alarm system is not sufficient, as alarms are often ignored and they assume someone is there to hear them and understands what it means.



That is a particular issue for commercial buildings, which if they are occupied for 50 hours (10 hours x 5 days) in the working week, are therefore unoccupied for 118 hours each week.

In that scenario where staff have gone home, lights out, windows and doors closed; who will raise the alarm in the event of a water leak? This has serious implications for a leak in premises which are unoccupied.

Our client has a data centre where they had rain water storage in close proximity that was not able to be moved to a different location. That made water leak monitoring a priority requirement for managing their risk, so they came to us.

Solution

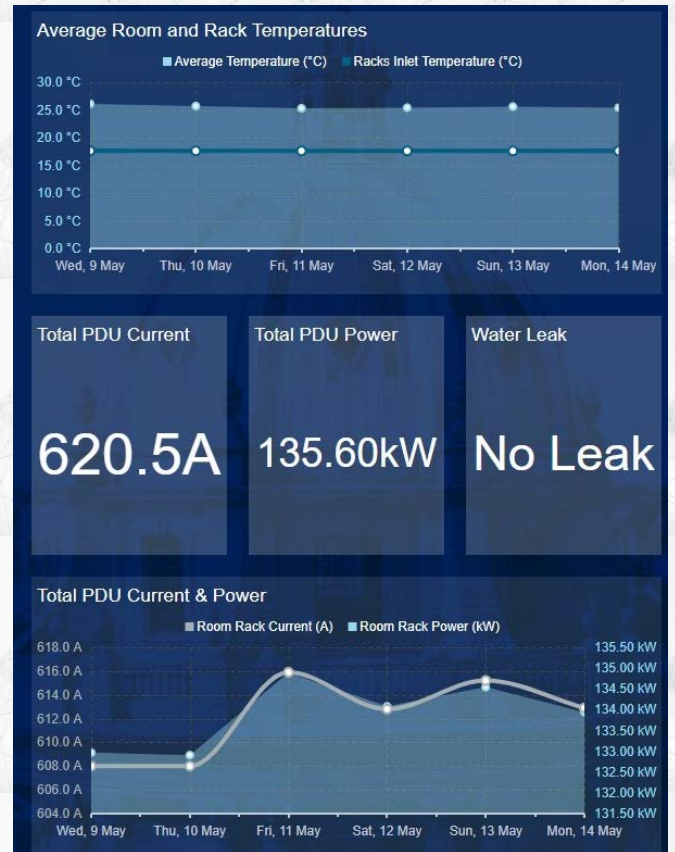
We provided a tailored leak detection system using leak rope and a controller integrated into our SMARTset Industrial IoT software. Installation was swift at just one day onsite with no interruption to existing operations.

SMARTset provides them with real time alerting of user defined alarms via text message, email, email link and virtual file system.

It also gives them dashboard visibility of the system integrated into their power, environmental and security monitoring which they already have in place using SMARTset.

Within three months of installation, the system proved its worth by providing first response to a water leak that occurred over a weekend when the premises were unoccupied.

Having had the value demonstrated in this way, the client had no hesitation in expanding it to cover their network of a dozen unmanned smaller technical rooms to mitigate this risk across more of their estate.



KEY POINTS

- Prevention**
 Alarms give immediate notification by text message, email and virtual file system
- Retro fit**
 New and existing equipment can be worked with
- Quick**
 Single day onsite installation with no disruption to existing operations

Further Reading

To understand more about the capabilities of SMARTset and its modules such as alarms and controls please go to <https://4ng.co.uk/smartset/modules/>

To see example case studies of SMARTset in use in different environments, please go to <https://4ng.co.uk/home/case-studies/>

