



Evotech partners with Disruptive Technologies to offer smart legionella monitoring solution

Evotech has partnered with Norwegian IOT specialists, **Disruptive Technologies**, to offer clients the latest smart legionella monitoring solution and further enhance its service provision.

The technology, which has been successfully tested over the past two years in a range of commercial environments including shopping centres, offices, and industrial settings, will boost the company's service offering by adding a quick, efficient, and accurate water monitoring solution.

As water pipes need to be actively monitored to reduce waterborne pathogen risks, like Legionella and Pseudomonas Aeruginosa, building owners and occupiers need to ensure water services operate at temperatures that do not encourage the growth of pathogens and that water is not left stagnant.

Advances in technology, combined with the drive to conserve water through low-flush toilets and low-flow devices, mean current data on building water consumption is outdated leading to demand being over estimated. As current practices reduce or limit building water consumption decreased water-tank turnover rates can lead to stagnation and public health concerns.

Legionella bacteria can proliferate in storage tanks, calorifiers, pipework and plant, filters, thermostatic mixer valves (TMVs) and specific types of fittings and materials. To minimise this risk it is beneficial to monitor water temperature immediately before hot and cold water outlets. Disruptive Technologies' smart sensors can be easily applied to water sources, midpoints and endpoints, in sections of piping that become isolated (dead-legs) and under sinks to comprehensively monitor a building's water supply. And where temperatures fluctuate outside safe ranges, sensors send alerts, allowing action to be taken before a legionella outbreak can occur.

A pipe monitoring sensor solution can also significantly reduce the time spent on legionella compliance by up to 80% and has the potential to reduce water consumption.

Wireless temperature sensors installed at each domestic hot and cold water outlet throughout a building, as well as the hot water calorifier outlet (and return if applicable), provide data to cloud connectors.

The continual monitoring of in-pipe water temperatures, automatically generate reports and provide a data trail recording when manual flushing has been undertaken at each outlet. This ensures that maintenance engineers need only periodically run those taps not flushed by normal use. Information can be accessed through an online dashboard where triggers and alerts can be activated.

The L8 solution is monitored in real time by the Evotech help desk, who respond to system alerts and notifications and coordinate any required actions with the engineering and contract management teams.

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