

INFORM
MONITOR



KWC DVS

Inform water
temperature
monitoring

KWC. The ultimate choice



KWC Group HQ, Unterkulm, Switzerland

KWC DVS

Over 235 years of washroom expertise and knowledge

Specialising in water saving technology for commercial washrooms, KWC DVS Ltd. has been producing leading automatic washroom technology for over 35 years. KWC DVS is a market leader in the field of water-saving products along with automatic washroom products for specialist applications, including the healthcare, mental healthcare, custodial and public sector markets.



KWC DVS Northern Office, Chesterfield, UK



KWC DVS Southern Office, Devon, UK

Alongside the extensive product portfolio, an expert team of engineers are on hand to support installations, whilst our technical sales teams give tailored project support and specification advice.

The KWC Group combines the benefits of reduced water consumption with a focus on hygienic design. KWC DVS are proud to be part of a global Group that produces products which have been used in demanding commercial environments for many years.

The KWC brand consists of four strong brands that become one: as KWC Group, we unite Franke Water Systems Commercial, DEKO and DVS under the KWC brand.

Together we have been developing and improving our products and expertise for decades, in some cases more than a century. This is what makes us so successful internationally.



Inform

Monitoring data on building assets

Monitoring water temperatures are key to water safety and can help to minimise the growth of waterborne pathogens, reducing the risk of infection. Inform is a highly intelligent digital solution designed to monitor, maintain and provide data on assets within a building. Shifting to digital operations and management can have huge benefits within a building. This easy-to-use system offers peace of mind that you operate at the highest safety levels and comply with building requirements.



Inform ensures that water is safe and encourages efficiency, compliance and management of all building assets to provide reliable data recorded with absolute precision.



Inform

Leading the way in infection prevention

In semi-public and public buildings such as hospitals, care and residential homes, education facilities, transport hubs, places of work and leisure facilities, there is a requirement for safe water. Temperature control is the traditional method for reducing risk within a building's water system. Inform's 24/7 monitoring provides detailed & accurate information, which allows for effective management to ensure compliance.

Legionella control and infection prevention have never been as important as they are today. Integrating the Inform system allows for remote monitoring of assets and reduces multiple site visits, ultimately providing a more intelligent, efficient and accurate solution. The platform offers a state-of-the-art, practical reporting system that provides precise data that can be exported.



Inform

Challenges of traditional water temperature monitoring

“A temperature control regime is the traditional means of controlling Legionella in hot and cold water services. Hot and cold water systems should be maintained to keep cold water, where possible, at a temperature below 20°C, and to keep hot water stored at 60°C and distributed so that it reaches the outlets at 55°C within one minute.”

HSG274 Part 2: The control of legionella bacteria in hot and cold water systems



The Inform system box and platform reduces the number of site visits required to audit water temperature within the building. All data is accurate and stored on a secure server which can be accessed anytime with your login.

Inform provides you with lifetime data analysis so you can ensure the safety of all assets within the building and refer to any risk history.

	Challenges with traditional water monitoring	Benefits of inform system
Number of site visits	Regular site visits	Reduced site visits
Data recording	Site log book	Secure server
Monitors water temperature	✓	✓
Real time temperature monitoring	✗	✓
Map & manage complete water system	✗	✓
One platform to manage all assets	✗	✓
Upload schematics & asset documents	✗	✓
Identifies risks in real time	✗	✓
Manage statutory monitoring tasks	✗	✓
Min, mean, max temperature recordings	✗	✓
Risk based alert system	✗	✓
Accurate data readings	✗	✓
Remote access to data	✗	✓
Lifetime data analysis	✗	✓
Secure cloud based system	✗	✓
Reduces on-site disruption	✗	✓
Cost savings and reduced labour time	✗	✓

Traditional water monitoring methods can pose challenges, from human error in data collection to site access issues. These issues could lead to non-conformance and health risks within hot and cold water systems where optimum temperatures for microbial growth and stagnation may occur. Integrating intelligent solutions such as the Inform system into your building's assets can reduce travel costs, reduce on-site disruption and ensure regular and accurate service checks. The intelligent digital dashboard can also provide environmental benefits due to fewer site visits and reducing fuel emissions.

Inform

Inform vs traditional water temperature monitoring

Monitoring assets is key to water safety in any building, and traditional water temperature monitoring has many challenges and limitations. Regular site visits and temperature measurements cannot always guarantee 100% water supply safety. Issues can arise quickly. If they occur between monitoring sessions, there will be a potentially dangerous time lag in identifying a problem.

Human error, site access issues, and manual data inputting can and do compromise the effectiveness of conventional monitoring. Safety is, of course, the paramount concern, along with maintaining compliance. But the time and labour costs of traditional monitoring can also pose significant challenges to the duty holder meeting their legal obligations.

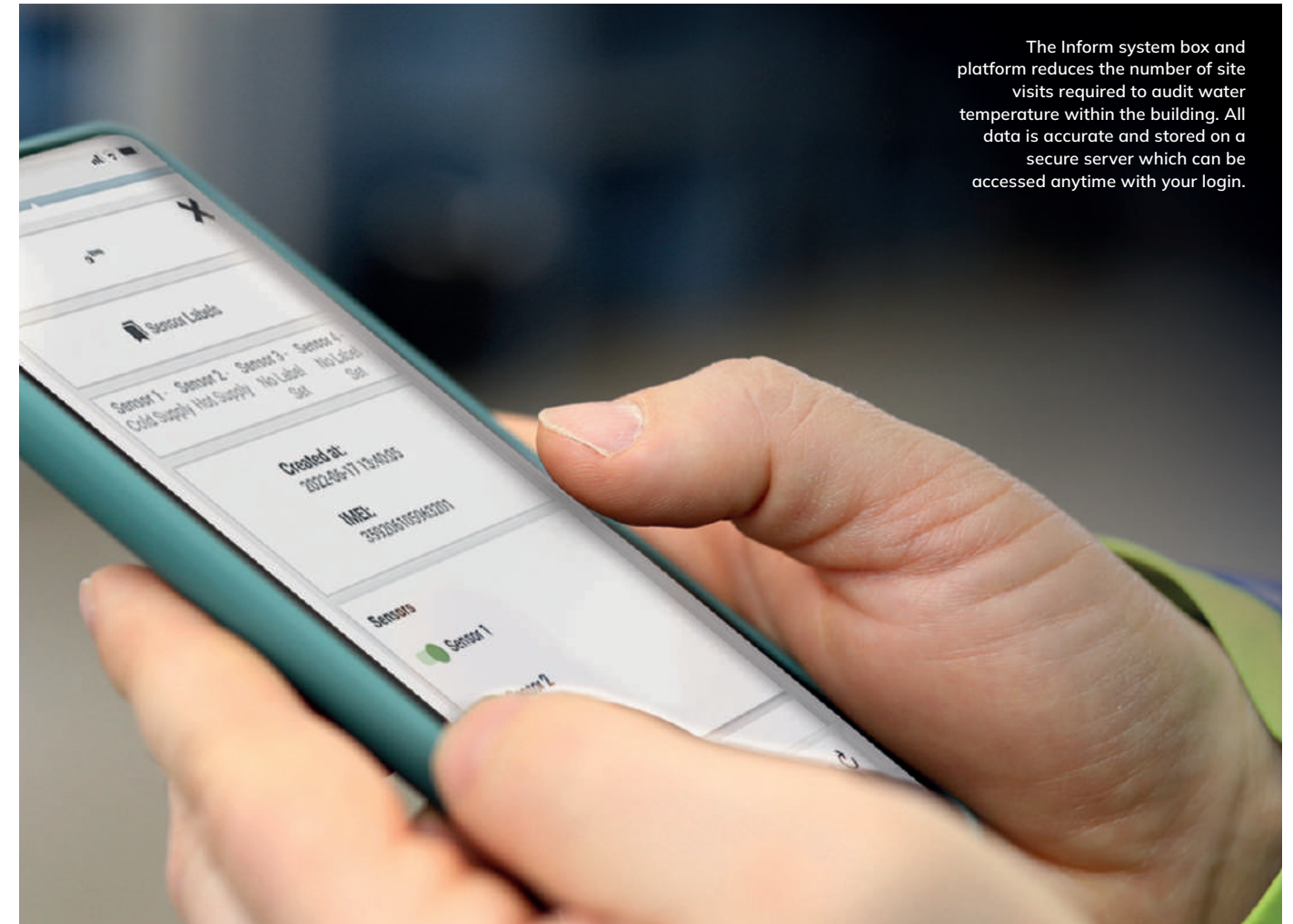
Inform has been developed as an efficient risk management tool that continuously monitors the temperature of a water system, providing superior risk management information. The Inform system utilises Narrowband IoT Low Power Wide Area Technologies (LPWA), providing increased building penetration and ensuring excellent communication in dense urban and remote urban settings.

Inform sensors constantly monitor the temperature of a water system, profiling and providing data to the central management system that alerts of any potential risks. The devices are easy to install onto pipework, and the software is intuitive and designed for efficient water temperature monitoring.



* Inform and sensors provide easy installation in either new builds or refurbishment projects without the need to disrupt existing building structures. Installation must be carried out by a trained professional.

† Battery life is dependant on frequency of signals and settings.

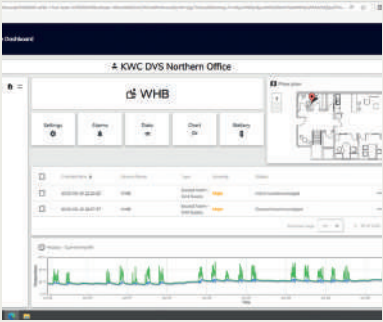


The Inform system box and platform reduces the number of site visits required to audit water temperature within the building. All data is accurate and stored on a secure server which can be accessed anytime with your login.

Features

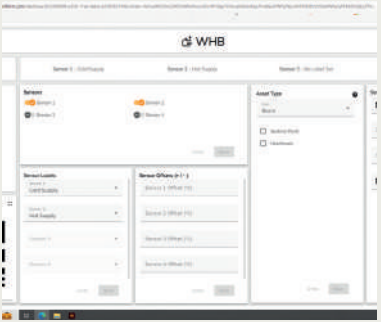
- Intuitive software and clear graphic displays
- Full audit trail of all events
- Designed for desktop, tablet & mobile
- Accurate reporting & documents stored in the system
- Real-time data captured every 10 seconds
- Max, average, min data recorded every 15 minutes
- Complies with ACoP L8, HSG 274, HTM 04-01
- No requirement to access IT data networks
- Anti-microbial system box with easy installation*
- Long life (5 yearst) replaceable batteries
- Installed complete and ready to operate*
- API integration to existing CAFM systems
- Continuous technical support service

Easy management with user friendly dashboard



Dashboard

Inform's digital dashboard is a user-friendly interface that provides an overview of all the assets in the building. The dashboard includes functions such as settings, alarms, data, charts, and battery life, all of which can be customized according to the specific requirements of the building or organization.



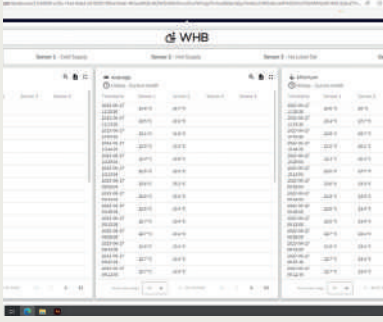
Settings

Settings include which sensors to be enabled, creation date of each asset, along with an IMEI number for traceability. Sentinel points and asset types, such as wash basins. To keep track of maintenance needs, servicing dates and intervals, can also be added to alert when servicing is due or has been completed.



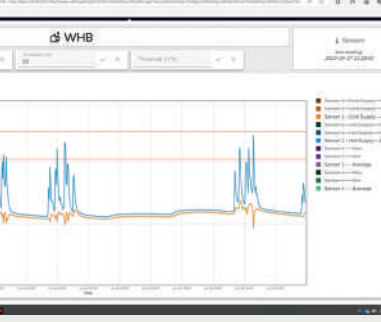
Alarms

The dashboard has six different types of alarms that can be customised depending on the alerts required. Alarms include offline alert, freeze, scald, the temperature exceeded, the temperature achieved and bacterial. Alarms can be enabled and disabled and set for each sensor accordingly.



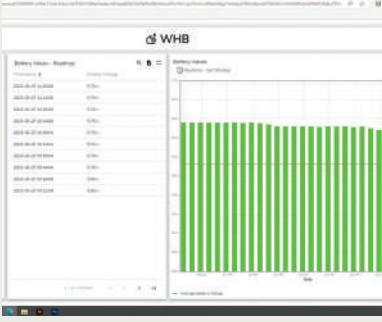
Data

The data will display the max, avg and min temperatures for all enabled sensors within each asset. The data displays the date and time of each recording (set in alarm settings) and can be exported as CSV and Excel files to allow for more detailed analysis or storing records.



Chart

The chart displays the temperatures within chosen time periods. The temperature charts can be adjusted accordingly by turning on and off the sensors on the right-hand side of the display. As default, the temperatures will display for the last seven days.



Battery

Battery life on devices linked to each asset is recorded daily at set time intervals. The readings are shown in a chart and can be downloaded as CSV and Excel files. A default battery alarm allows time for replacement batteries to be fitted.

Inform Intelligent dashboard

A user-friendly and practical digital dashboard with high functionality can make monitoring and managing assets much easier and more efficient. The icons on the dashboard provide quick access to the functions needed to keep track of important metrics and make informed decisions. The dashboard allows users can stay on top of their assets and respond quickly to changes or issues. Inform's digital dashboard is a valuable tool for any organization looking to improve their asset management capabilities.



Inform Monitoring

Monitoring

Accurate and reliable monitoring is crucial in maintaining a safe water supply. With so many variables in extensive water systems, keeping a close watch cannot be overstated. However, reliable temperature checking can be demanding and time-consuming in a large complex system. Furthermore, achieving constant real-time monitoring is not possible via conventional methods.

The limitations of conventional temperature monitoring

Regular site visits and temperature measurements cannot guarantee 100% water supply safety. Issues can arise quickly. If they occur between monitoring sessions, there will be a potentially dangerous time lag in identifying a problem.

Human error, site access issues, manual data inputting – such challenges can and do compromise the effectiveness of conventional monitoring. Safety is, of course, the paramount concern, along with maintaining compliance. But the time and labour costs of traditional monitoring can also pose significant challenges, which the duty holder is legally obliged to meet.

In practical terms, the lack of constant real-time monitoring can increase risks aside from bacterial outbreaks. Scalding from over-hot water is possible; at the opposite extreme frozen pipe damage can also occur when data is unavailable in real-time. The shortcomings of conventional monitoring also correlate with more maintenance engineer callouts, water leaks, and energy wasted in heating water needlessly.



**"WITHOUT DATA
YOU'RE JUST A PERSON
WITH AN OPINION"**

W. Edwards Deming

INFORM



Get in touch for a
FREE trial now:
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A digital alternative

The HTM-04-01 guidelines state that:

"More extensive use of automatic sensors and reporting systems should be considered for surveillance of systemic temperature profiling. Sensors should be located throughout the whole hot and cold water systems to ensure they give representative temperature values."

KWC DVS' Inform real-time temperature monitoring is one such solution. It offers a digital way to maintain constant oversight of water system assets by feeding accurate data 24-7 to a secure cloud-based platform. Inform provides reports, alerts, and data through an intuitive dashboard, which can be accessed on a PC, mobile phone, or tablet.

