



Hanwell

If it's worth monitoring,
it's worth monitoring well.



Delegate your environmental monitoring to Hanwell

Within the Heritage industry there are millions of pounds worth of priceless, irreplaceable artefacts and historic structures. It is vital for the preservation of these items that the conditions in which they are kept, transported, stored and displayed are carefully controlled. With this requirement in mind accurate and reliable monitoring is essential.

The IMC Group's Hanwell brand is well-established with a reputation for being the most reliable, durable and flexible system within the Heritage industry. As well as being designed to provide conservators with a complete solution to current environmental monitoring and control requirements, our systems have the ability to expand as exhibition requirements change and needs grow, providing a uniquely future proof solution to monitoring.

Why choose Hanwell?

Established within the Heritage industry for over 25 years, our commitment to conservation is showcased by the flexibility and breadth of our monitoring capabilities.

Advantages of choosing Hanwell

- Wide range of product parameter options including humidity, insect pest, light, wood, energy and many more.
- Hanwell offer a multitude of monitoring solutions from single applications to multiple applications within multiple sites.
- Unrivalled radio technology for all building types.
- Reliable, accurate and durable hardware for long-term monitoring solutions.
- Comprehensive software reporting and analysis tools.
- Long-life and user changeable battery.
- Complete closed loop environmental monitoring and control system solutions.
- Future-proof system with flexible hardware and software options.
- Customised monitoring solutions.
- British made.
- Discreet design to be positioned within show cabinets.

Unbeatable radio range

To get a long-term reliable system working in often very complicated buildings, radio range is fundamental. Typical competitive systems have wireless ranges of around 100 metres, whereas the Hanwell line of sight wireless range reaches 3,500 metres. This allows Hanwell radio data transmission to be totally independent from IT based Wi-Fi and typically requires very few repeaters to be installed.



Always ask for a long-range signal strength test.

We can prove ours to be unrivalled.



Affordable systems that are made to measure

The Hanwell systems have been specifically designed to cater for a wide variety of needs with varying product capabilities, because we understand that although all monitoring principles are similar, all buildings, resources and budgets are different.

Small to medium system solutions with indicators and data loggers

Data loggers are ideal for conservators that require standalone solutions for isolated areas. The LCD displays immediate indication of an object's current environment, with additional data storage for easy download to a local PC via a USB cable.

Medium to large system solutions with radio and GPRS transmitters

The Hanwell radio technology provides conservators with a reliable and durable system that can cover an unrivalled range of 3km+ over open ground. GPRS transmitters are specifically designed for remote locations ensuring that even hard-to-reach areas are monitored.

The system is cost-effective and easy to install due to its wireless format. Each base station is capable of receiving data from up to 253 transmitters and provides an optimum solution to comprehensive monitoring. Each system can have unlimited base stations.

Radio and GPRS data and alerts are transmitted to a local PC or network for analysis or immediate action. Other Hanwell radio monitored sites can feed data into an organisation's network for multi-site monitoring solutions.



Creating Synergy between you and your environments

Whatever you need

- Single or multi user access for small, medium or large monitoring needs
- Share data with users and allocate permissions to various data groups where required
- Data collection and display of more environmental parameters than any other product on the market
- Display quick overviews of sites and/or sensor groups specified by individual users
- Access interactive graphs, tables and plan views for detailed data analysis

Whenever you need it

- View real-time data 24/7
- Immediate system, email and SMS alarm notification for defined personnel
- Generate automated reports or access reports immediately and easily

Wherever you are

- Access critical information on your local PC, via company intranet or network and via the internet
- View and interact with data and settings from anywhere in the world using commercially available browsers e.g. Firefox, IE, Chrome

Letchworth Factory

Sensors in Alarm: 5
Sensors Ack: 0
Sensors Ok: 31

View Data User Al...

Welcome: Master
ALERT: You have sensors in alarm
Alarm cancelled: 5
Alarm pending: 0

Admin Settings Log Out

Multiple solutions for conservation

The Hanwell range covers a multitude of measurement options including:

- Temperature and relative humidity
- Lux and UV
- Utility
- Flood and leak
- Insect pest control
- Wood and many more

Humidity Monitoring for Artefacts



The ML4106, ML4109, ML4114 and RFBug (data loggers and radio transmitter options available) are ideal for humidity measurement to prevent damage to organic materials, such as paintings, sculptures etc.

Lux and UV Monitoring



The ML4000 Lux/UV range (data loggers and radio transmitters options available) monitor light to assist in preserving sensitive materials such as print, drawings, fabrics, oil paintings and wooden objects.

Air Flow Monitoring

The 4000 series of wind speed and direction transmitters are used to monitor airflow for dust and direct accumulation analysis. This can assist in reducing maintenance costs, enables users to introduce optimised maintenance plans and reduce damage to artefacts from over cleaning.



Humidity Monitoring in Transit

The small discreet HumBug temperature and humidity data logger assists with monitoring travelling exhibitions on loan. Ideal for use when wired or radio systems are unavailable.

If real-time data of a travelling exhibition is required the iSense GPRS can be used to transmit information to a central database.



Flood and Leak Monitoring

The FloodWatch and GutterWatch can be used in conjunction with each other to prevent potential gutter overflow and detect any leaks before they occur to assist in avoiding damage to the building's structure and internal contents.



Insect Pest Control

The AnoxiBug oxygen sensor (indicator, data logger and radio transmitter options available) is an atmospheric control method used to eradicate insect pests from organic materials. This solution is cost effective and efficient and eliminates the need for harmful chemical treatments.



Utility monitoring



The utility monitoring range can easily be added to any Hanwell system and is designed to measure and record utility usage over time to assist in energy waste reduction. The system allows statistical analysis of kilowatts/hrs, cubic meters of gas and litres of water consumed. Utility sensors can be deployed across a site with minimal disruption.



Complete closed loop monitoring and control

With the unique ability to integrate control functionality into the system, Hanwell wireless systems can go beyond just monitoring. The ability to monitor and control environments sets us apart from other wireless monitoring system providers. Our closed loop monitoring and control solutions can be achieved in a number of ways that suit our customers' needs. The simplest way is using the Hanwell MS1000 relay of analogue cards to interface directly to a BMS system. The MS1000 system is ideal when a small number of sensor readings need to be interfaced to a BMS system, for larger systems with many sensor points the following options are available:

- Local radio receiver with Modbus RTU output
- OPC server (software to software communication)
- Modbus TCP service

In addition to the MS1000 control systems, The IMC Group has a range of humidifiers and dehumidifiers which include combined humidifier and dehumidifier (CCR30). The CCR30 can be used in conjunction with Hanwell radio transmitters for automatic control. Hanwell humidistats can be used with third-party equipment to provide precise environmental control.





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