



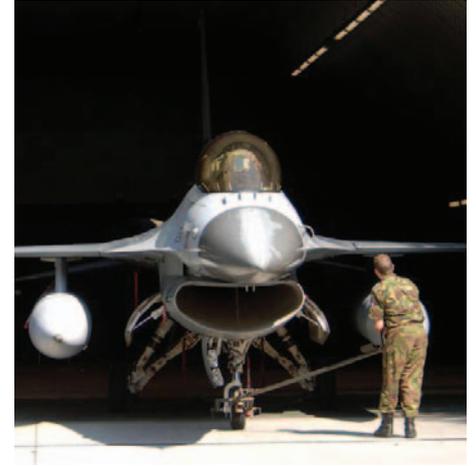
## Hanwell

An environmental monitoring and control professional at your finger tips

# Delegate your environmental monitoring to Hanwell

Hanwell is a well-established brand with a reputation for being the most reliable, durable and flexible system within the industrial market. As well as being designed to offer customers a total solution to current environmental monitoring and control requirements, our systems have the ability to grow along with an organisation providing a uniquely future proof solution to monitoring.

The table below illustrates the full range of Hanwell monitoring formats and the product capabilities within a monitoring process, from measurement of the required parameter to generating the potential action required. The Hanwell systems have been specifically designed to cater for a wide variety of needs with varying product capabilities because we understand that although monitoring principles are similar, all buildings, resources and budgets are different.



## 5 step monitoring process

Hanwells full range of format options:

	Indicator	Data Logger	Radio/GPRS	Radio/Control
1 Measure parameter	✓	✓	✓	✓
2 Display data	✓	✓	✓	✓
3 Log/Transmit Data		✓	✓	✓
4 Data Collation/Reporting			✓	✓
5 Generate Action				✓

## Advantages of monitoring with Hanwell

- Wide range of product parameter options which include; temperature, humidity, energy, pressure, CO<sub>2</sub> and many more
- Hanwell offer a multitude of monitoring solutions from single application to multiple applications within multiple sites
- Proven radio range of 3km over open ground
- Reliable, accurate and durable hardware for long-term monitoring solutions
- Comprehensive software reporting and analysis tools
- Fully validated systems available to meet strict regulatory compliance
- Long-life and user changeable battery
- Complete closed loop environmental monitoring and control system solutions
- Future proof system with flexible hardware and software options



## Radio-Wave your manual checks goodbye

The Hanwell radio technology provides users with a reliable and durable system that can cover a range of 3km over open ground. The system is cost-effective and easy to install due to its wireless format. The base station is capable of receiving up to 253 sensor transmissions and provides users with an optimum solution to comprehensive monitoring.

Unless the monitoring needs are isolated (where a data logger option would be the most cost-effective solution) the most logical system format is radio. Radio monitoring eliminates user manual checks and sends relevant data and alerts to a local PC or network for immediate action. Other Hanwell radio monitored sites can feed data into an organisations network for a multiple site monitoring solution.



## Typical industrial applications

Application	Product
Monitor and generate alarms for temperature and humidity levels within warehouses, stability chambers, server rooms, fridges, freezers, labs and many other critical areas	RL4106-434.075 with internal RH/T probe
	RL4114-434.075 for use with combined external RH/T probe
	RL4115-434.075 for use with individual external RH/T probes
Monitor and generate alarms for temperature levels within warehouses, stability chambers, server rooms, fridges, freezers and many other critical areas	RL4001-434.075 for external probes RL4007-434.075 with internal probe
Monitor and generate alarms for differential pressures within clean rooms	RL5405-434.075
Monitor and generate alarms for pressure, flow, level, NH3 and many other parameters.	RL5001-434.075 for use with industry standard sensors
Monitor and generate alarms for temperatures within ovens	RL5002-434.075 for PT100, thermistor and thermocouples
Monitor and generate alarms for temperatures within water tanks (legionella)	RL4001-434.075 standard and custom probes available
Monitor and analyse energy consumption within indoor and rugged outdoor environments	RL4601-MRC-434.075 and J091 clamp current sensor
Monitor outdoor temperature and humidity	ML4109-434.075
Detect and generate alarms for floods and leaks occurring indoors (e.g. server rooms)	RL4805-434.075 and V053 water detection cable
Monitor and generate alarms for gutter sensor overflow and maintenance requirements	RL4504-434.075 includes gutter sensor

## Complete closed loop monitoring and control

Hanwell wireless systems can go beyond just monitoring with the unique ability to integrate control functionality into the system. 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 Hanwell MS1000 relay of analogue cards to interface directly to a BMS system.

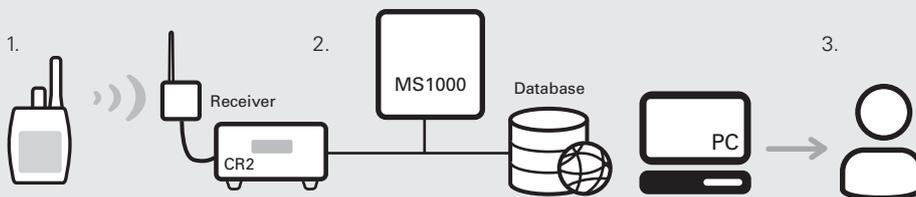
The MS1000 system is ideal when a small number of sensor readings need to be interfaced to a BMS system, for larger systems with many sensor points the following options are available:

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

Hanwell wireless sensors can also be interfaced to industry standard SCADA systems using either OPC or Modbus.

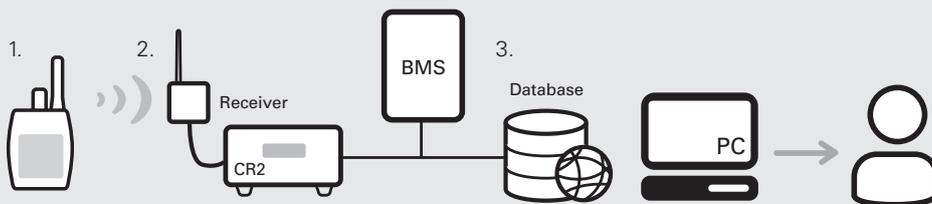


### The schematic below details how a system can be used for standalone control



1. Transmitter records & sends data to CR2.
2. If a sensor has breached a predetermined setting the CR2 sends a command to the MS1000 to restore conditions.
3. Data is stored on a local network and can be accessed by multiple servers if necessary. Multiple users can access the site via their local PC / server.

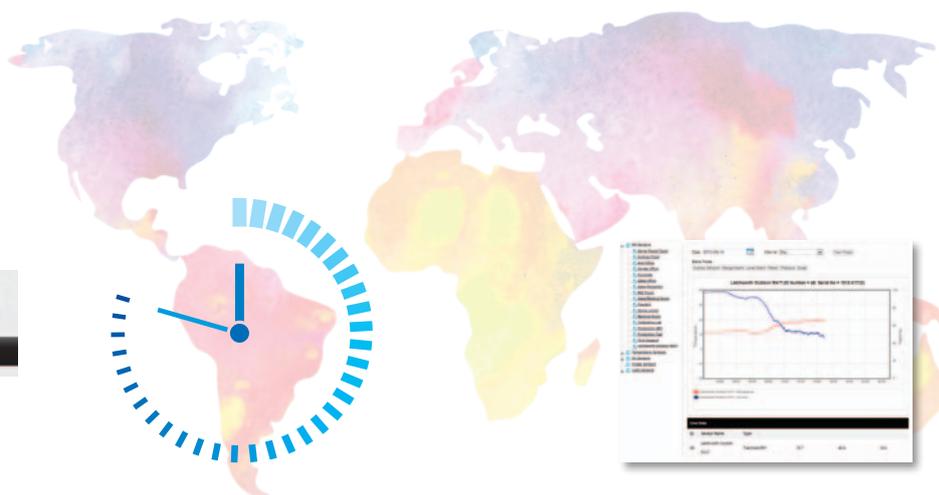
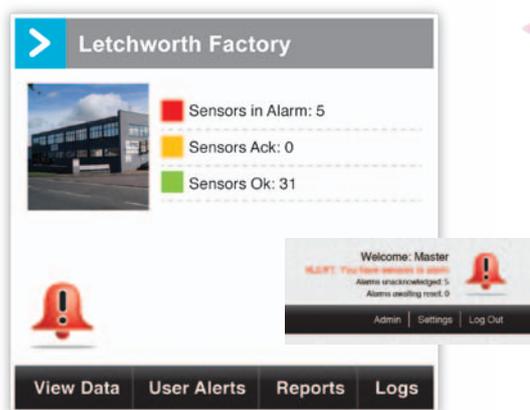
### The schematic below details how a system can be interfaced into a local BMS



1. Transmitter records & sends data to CR2.
2. If a sensor has breached a predetermined setting the CR2 sends a command to the BMS to restore conditions.
3. Data is stored on a local network and can be accessed by multiple servers if necessary. Multiple users can access the site via their local PC / server.

# Creating Synergy between you and your critical environments

Synergy is the software platform that brings all the Hanwell hardware together and takes environmental monitoring data display to another level. All transmitters are configured through Synergy and all data is recorded in the Synergy database. Full data collection with interactive graphs, tables and plan views enable users to slice historical data in multiple ways for advanced analysis as well as set alarms and report on alarms generated. Synergy user access levels can be managed through customisable groups. Managing environmental data has never been so easily accessible to so many – whatever and whenever you need it – from wherever you are.



## 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 overview 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 to user defined personnel
- Generate automated reports or access data immediately and easily via the system

## 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 browser based formats e.g. Firefox or IE



Optional add-on E-alarm provides email notification of alarms. Optional add-on SMS-alarm provides SMS notification of alarms. For validated users RadioLog8 is available.

INDUSTRY SPECIFIC  
PRODUCT SOLUTIONS



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