



## Hanwell

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



# Delegate your environmental monitoring to Hanwell

Independent monitoring and alarm system including out of working hours alerts. Fully validatable solution that meets FDA 21 CFR Part 11 requirements.

Valuable research, specimens and cultures once lost are often irreplaceable. Loss of such research as a result of inadequate environmental monitoring equipment can be devastating to an organisation and pharmaceutical professionals for a multitude of reasons such as reputation, time and money. The ability to prevent disastrous consequences like this happening are simply to set up an independent monitoring and alarm system that provides immediate alarm notifications via email, SMS or via the secure software. Users also have the option to access alarm data via our 24/7/365 manned call centre.

## Keeping up-to-date with regulations

Such a system can also help greatly in ensuring and proving regulatory compliance. The Hanwell range includes key monitoring capabilities that continue to exceed GDP, GMP and GAMP guidelines.

Hanwell environmental monitoring systems remain unrivalled in providing a complete solution to independent monitoring for multiple applications and parameters with immediate alarm notification, historical record keeping and calibration.

## Calibration that provides peace of mind

Hanwell software retains calibration information for each transmitter and automatically runs scheduled reports showing calibration due dates. We pride ourselves on our ability to remain flexible to each organisations individual requirements, enabling units to be calibrated either in-house or onsite. Instruments can be adjusted and calibrated to satisfy the most demanding applications, hence guaranteeing data on which you can rely absolutely.

Unrivalled  
radio range  
of up to  
3,500 meters  
(over open ground)



# One system with multiple solutions

## Laboratories & manufacturing

Application	Parameter	Measurement	Products	
<b>Fridges</b>	Temperature	2°C and 8°C	RL4001-434.075 (single channel)	RL4002-434.075 (Dual channel)
<b>Freezers</b>	Temperature	-20°C, -30°C and -40°C -80°C	RL4001-434.075 RL4401-434.075	RL4402-434.075
<b>Cryogenic Chambers</b>	Temperature	-150°C and -200°C	RL5002 combined with type T Thermocouple	
<b>Laboratory Incubators</b>	CO2	0-5% or 0-10%	RL5016-434.075 (5%) RL5018-434.075 (10%)	
	Temperature	-20°C to +60°C		
	Humidity	0 to 100%		
<b>Clean rooms &amp; Containment Areas</b>	Differential pressure (clean/contaminant rooms)	±50pa	RL5405-434.075	
	Differential pressure (Filter performance)	(±12.5mb	RL4502-434.075	
<b>Air Handling Systems &amp; Life Sciences</b>	Air flow	0 to 5m/s (0...1000ft/min), 0 to 10m/s (0.2000ft/min) and 0 to 20 (0...4000ft/min)	RL4810-434.075	
	Light (LUX)	10 to 5000 LUX	ML4701-434.075	
<b>Storage</b>	Temperature	-40°C to +60°C	RL4001-434.075	
	Combined RH/T	-40°C to +60°C 0 to 100% RH	RL4115-434.075	

## Storage & distribution

Application	Parameter	Measurement	Products	
<b>Cold rooms/Storage</b>	Temperature	-40°C to +60°C	RL4001-434.075	
	Combined RH/T	-40°C to +60°C 0 to 100% RH	RL4115-434.075 or RL4114-434.075	
	Light (LUX)	10 to 5000 LUX	ML4701-434.075	
<b>Distribution</b>	Temperature	-30°C to +66°C	Transport Logger	
	Combined RH/T	-34°C to +66°C 0 to 100% RH	Humbug	

## Retail

Application	Parameter	Measurement	Products	
<b>Fridges</b>	Temperature	2°C and 8°C	RL4001-434.075 (single channel)	RL4002-434.075 (Dual channel)
<b>Freezers</b>	Temperature	-20°C, -30°C and -40°C	RL4001-434.075	
<b>Cold rooms/Storage</b>	Combined RH/T	-40°C to +60°C 0 to 100% RH	RL4115-434.075 or RL4114-434.075	
	Light (LUX)	10 to 5000 LUX	ML4701-434.075	

# Creating Synergy between you and your environments

Synergy is a fully validatable software platform, compliant to FDA 21 CFR Part 11 and GAMP5 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 secure 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

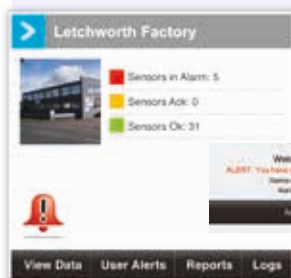
- System validation to organisation requirements with full supporting IQ & OQ protocols
- Single or multi user access for small, medium or large monitoring needs
- Share data with users and allocate permissions to various data groups where required
- Data collection and display of more environmental 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



## 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



# Why Hanwell?

For over 20 years the Hanwell environmental monitoring, alarming and control systems have remained the market leader in wireless performance and monitoring capability.

The system is fully validatable and provides pharmaceutical professionals immediate access to secure software for quick and easy access to data as well as historical records for regulatory compliance and a method of monitoring from anywhere in the world via optional web browser capabilities.

## 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 meters; whereas the Hanwell line of sight wireless range reaches 3,500 mtrs. This allows Hanwell radio data transmission to be totally independent from IT based Wi-Fi and typically requires very few repeaters to be installed.

## Software like no other

The new validatable Synergy software offers the very latest in cloud-based technology with a huge amount of flexibility featuring customised views, detailed permission control and much more.

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

## Benefits

- Wide range of product parameter options which include; temperature, humidity, energy, differential pressure,
- O2, LN2, airflow, particle counting and much more
- Hanwell offer a multitude of monitoring solutions from single application to multiple applications within multiple sites
- Proven radio range of 3,500 mtrs 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 solutions
- Future proof system with flexible

- hardware and software options
- Each Hanwell transmitter supplied can be individually calibrated to UKAS or NIST standards if required.
- All Hanwell transmitters can be calibrated on or off site by either the client, a third party calibration company or IMC. No need to return to manufacturer. No loss of data while transmitters are off-site for calibration.





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