HANWELL

Environmental monitoring & control equipment for laboratories

imc Intelligent monitoring and control solutions:
In Buildings | In Transit | Outdoor/Remote

www.the-imcgroup.com

Independent monitoring and alarm system solution 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 the laboratory managers 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 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 on-site. Instruments can be adjusted and calibrated to satisfy the most demanding applications, hence guarenteeing data on which you can rely absolutely.

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 lab managers 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 ranes of around 100 meters; wheras the Hanwell line o f sight wireless range reaches 3,5000 meters. This allows Hanwell radio data transmission to be totally indepenent from IT based Wi-Fi and typically requires very few repeaters to be installed.

Software like nothing else

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.

Benefits

- Wide range of product parameter options which include; temperature, humidity, energy, differential pressure, O2, LN2, airflow, particle counting and many 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 system 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.

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

One system with multiple solutions

Fridge/Freezer

The RL4000 range of wireless Thermistor and PT100 transmitters are designed for use in demanding applications. Fridges at 2°C to 8°C and Freezers at -20°C, -30°C, -40°C & -80°C.

- Single and dual channel thermistor transmitters range from -40°C to +50°C
- PT100 transmitters range -90°C to +110°C
- Combination of Thermistor and PT100 transmitters are also available.

Cryogenic Chambers

The RL5002 type T thermocouple transmitter is designed for use in cryogenic chambers; the superior sensors remain flexible making them ideal for use in these severe environments.

The RL5002 (as shown in the image above) when combined with a type T is used to monitor cryogenic storage at -150°C and -200°C.

FULLY VALIDATABLE SYSTEM SOLUTIONS

Maintain optimum environments

Laboratory Incubators

The RL5406-434.075 comes complete with CO2, temperature and humidity monitoring capabilities and has been specifically designed for use with laboratory incubators. Option available for CO2, temperature and humidity. The CO2 sensor is a high accuracy stable infra-red dual-beam device with an operating range of either 0 – 5% or 0 – 10% CO2.

The temperature sensor range is -20°C to +60°C with ±0.1°C accuracy.

The humidity sensor range is 0 to 100% with ±2% accuracy (0-90%) ±3% (90-100%)

Clean Rooms & Contaminant Areas

The RL5405 type ultra-low dp transmitters are designed for use in clean rooms and contaminant areas.
The RL4502 low dp transmitters are designed for monitoring filter performance.

The RL5405 is used to measure differential pressure over the range ±50pa.

The RL4502 is used to measure differential pressure over the range ±12.5mb.

Unrivalled radio performance

Air Handling Systems & Life Sciences

The RL4810 air flow unit has an accurate air flow sensor that provides users with tools for preventative maintenance within refrigeration units and filtration systems.

The RL4810 air flow sensor is capable of measuring 0 to 5m/s (0…1000ft/min), 0 to 10m/s (0.2000ft/min) and 0 to 20 (0…4000ft/min).

Storage & Life Sciences

The RL4000 series of RH/T transmitters are designed for use with monitoring ambient temperature and humidity for storage facilities or life sciences.

The ML4701 transmitter monitors light (LUX) for correct day and night cycles with a visible range of 10 to 5000 LUX.

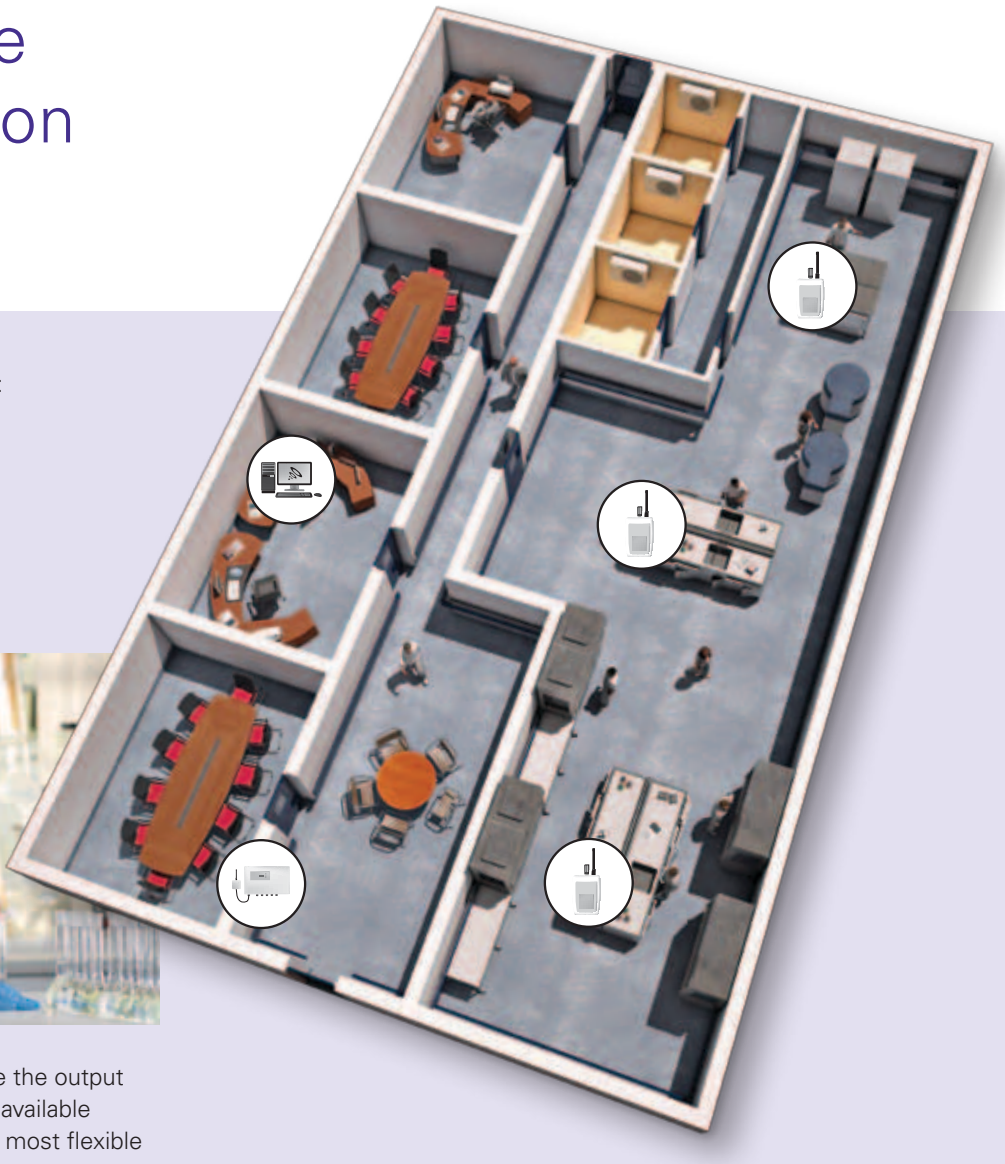
The RL4114 monitors temperature ranges at -40°C to +60°C with a ±0.1°C accuracy.

Utility Monitoring

The Utility monitoring range can be easily added to any Hanwell system and is designed to measure and record utility usage over time and 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.

Your complete system solution

Typical floorplan layout



Our range of transmitters can measure:

- Temperature
- Temperature & Relative Humidity
- Light (Lux)
- Air Flow
- Energy, Water & Gas
- CO2, Temperature & Humidity
- Differential Pressure

Our wireless system can accommodate the output from virtually any type of commercially available sensor making the Hanwell system the most flexible hardware available today.

1. Transmitter records & sends data to SR2
2. SR2 sends collated data to a local network
3. Data is stored on a local network and multiple servers (if necessary). Data is accessible by various PC's and slave PC's for multiple user access.

The additional possibility of controlling environments within the Hanwell range sets us apart from other environmental monitoring technology on the market.

PEACE OF MIND

Calibration

Hanwell Software retains calibration information for each transmitter and automatically runs scheduled reports for on and offsite calibration.

There are no limits to what the Hanwell system can do

Creating **Synergy** between you and your research environments

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

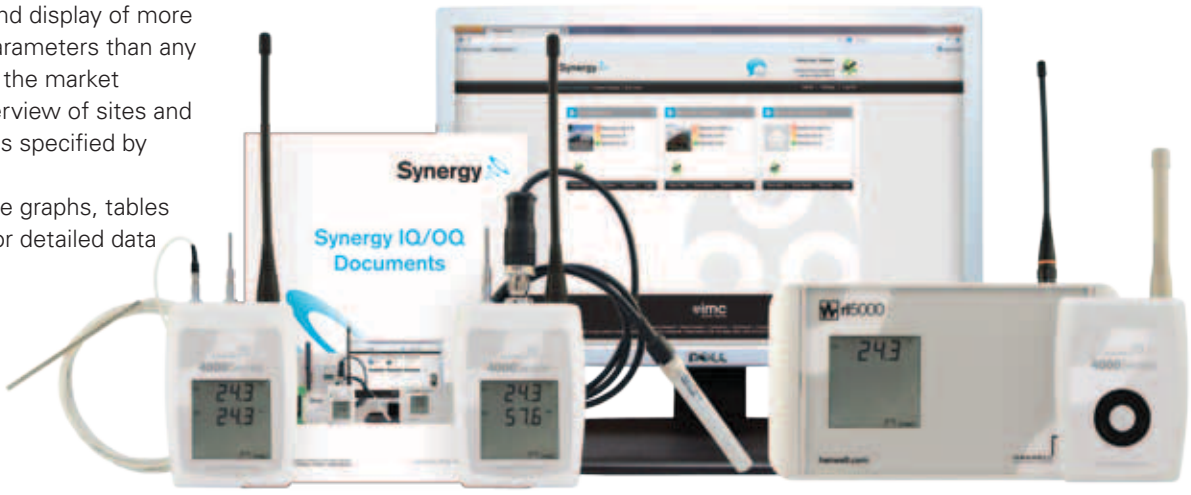
- System validation to organisation requirements with full supporting IQ & OQ protocols
- Single or multi user access for small, medium or large monitoring needs
- Share data with users and allocate permissions to various data groups where required
- Data collection and display of more environmental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



SMS-alarm provides SMS notification of alarms.

HANWELL

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