

Temperature Monitoring

The Complete Solution for
Pharmaceutical & Healthcare Providers



Automated, Real-Time Temperature Monitoring & Alerts.

Abacus Guardian+ provides

- ✓ Web Access from Anywhere
- ✓ SMS Text & Email Alarms
- ✓ Quality Audit Trail
- ✓ Product Assurance



www.abacusguardian.com

Temperature monitoring, data logging & alarm systems

The Benefits of Abacus Guardian+

The pharmaceutical, and healthcare, industry continues to demand the highest standards of temperature controlled storage for an ever widening range of complex products.

Whether it's keeping items in long-term frozen conditions, or short-term refrigeration, the consequences of power cuts, electrical faults or plant failures can be serious and significant.

Safety is always the prime concern. However, the ever increasing price of existing products and the emergence of new high value, specialised drugs means that maximum shelf-life & minimum waste has to be achieved.

MHRA applies rigorous standards to the cold chain records, ensuring the safety and effectiveness of these vital products.

Keeping detailed, auditable temperature records is a basic requirement of these standards of excellence. This, together with effective alarm monitoring, performs a vital role, allowing staff to implement effective procedures should an unexpected event occur.

The Abacus Guardian+ system is present in many NHS and private healthcare locations providing all day, every day, automated real-time monitoring ensuring both safety and compliance for these temperature sensitive products.

Detailed, auditable, temperature records are a basic requirement of mandatory Quality Control. Effective alarm functions help with compliance and provide stock security and peace of mind.

The Abacus Guardian+ system

- No PC software is required; access to the data is via web-browser on any device with internet connectivity
- Wireless sensors eliminate the need for complicated wiring
- Data uploaded via mobile network - no connection to your network (Ethernet optional)
- Email and text alarms sent to one, or more, recipients
- Sensors and Users can be grouped into logical, or geographical, clusters
- Secure data storage with access to real time and historical data
- 24/7 monitoring with recording points every five minutes
- MHRA compliant auditable records

How It Works

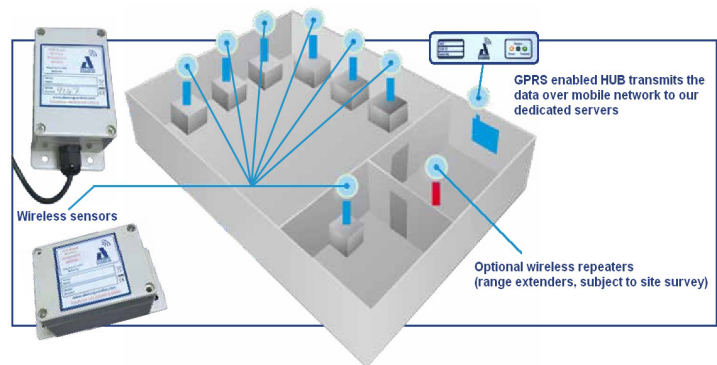
The system uses two main modules:

- Wireless sensors (battery life >4 years with optional low-battery alarms)
- Base station (Mains powered with optional battery backup supply)

Sensors are installed in the areas to be monitored. The base station sends the data back to our servers. The information is presented to customers, via a website, to manage and view their records and alarms. PDF and CSV downloads are optionally available.

Example Sectors

- ✓ Whole Blood
- ✓ Blood Plasma
- ✓ Blood Samples
- ✓ Vaccines
- ✓ Liquid Pharmaceuticals
- ✓ Patient-at-home medications
- ✓ Mortuaries



Simple to navigate

Once the data has been received it is then checked against alarm parameters defined by the customer. If the values fall outside the defined parameters then the system will send a user-defined combination of email and/or SMS text message alarms.

The data is also stored and can be accessed using any web browser protected by a unique username and password. The data can be displayed as live or historical data.

You do not require any special software, or a dedicated PC, to record or view your data.

Detailed Charts

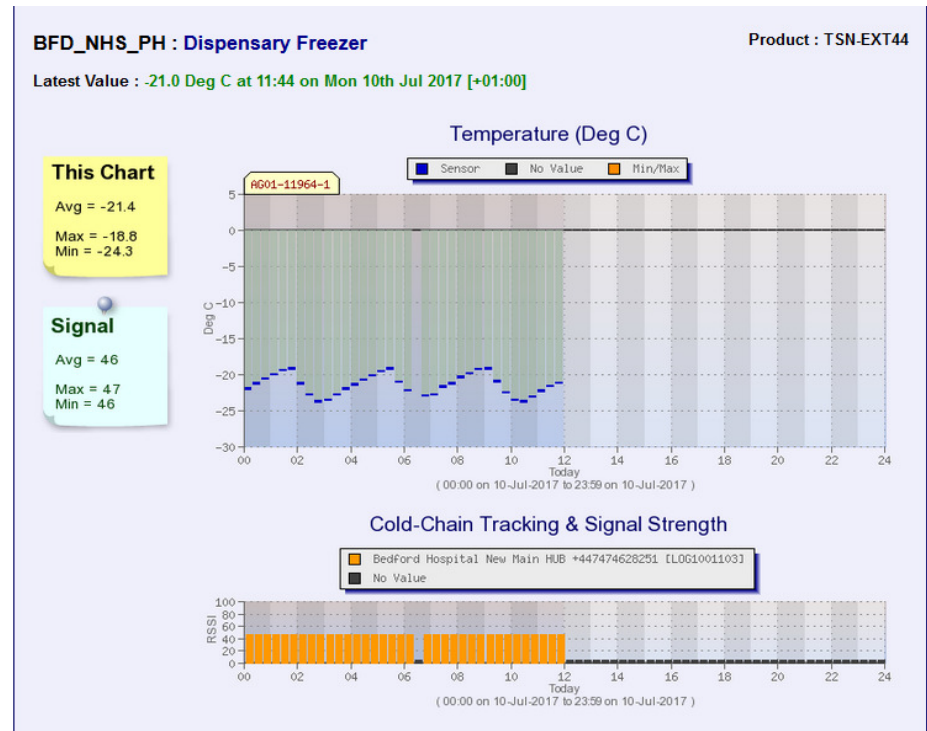
View your historical records, for a chosen timeframe, at the click of a button.

Cold-Chain Tracking

Optionally, the system allows you to track your products from manufacture to storage by showing you which base station sent each reading from the sensors.

Other measurement types

There are Abacus Guardian+ sensors to monitor many different signal types.



Call us today to find out more - 07366 097 097

or email us at - sales@abacusguardian.com

Our Products and Services are made in Britain



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