

# Case Histories

## Case History 1

### Customer: Pharmaceutical Wholesaler

Comark has recently broadened its RF500 application areas to cover goods in transit. A transmitter placed in a vehicle will continuously monitor temperature and automatically transmit the data to a Gateway unit as soon as the transmitter returns within range. The result is a single comprehensive set of data covering the entire storage and transportation process.

This development led to an order from a market leading wholesaler and supply chain organisation with multiple UK locations and a large fleet of delivery vehicles engaged in distributing pharmaceuticals and medicines to a network of high street pharmacies. They have replaced expensive, Labour intensive manual methods of temperature and RH monitoring with a fully automated Comark wireless system.

Amongst a comprehensive list of requirements that the new system has answered is the need to cover both static and transit applications, and "to further support the customer's MHRA licensing requirements".

in terms of remote blood banks alone, was taking a member of staff 2 hours per day. The new system needed to be fully automatic, capable of operating 24 hours per day, 365 days per year across four hospital sites with six pathology labs, eight blood banks and a total of 180 monitoring points.

An RF500 system with 14 Gateway units has fulfilled all the customer's requirements. It allows data from all locations to be viewed locally and remotely by different people within the trust and includes an email alarm system for each separate Gateway unit, as well as visible alarms on each transmitter. Monitoring points range from -80°C freezers, fridges, cold rooms and incubators, and the system provides almost permanent mapping for super-critical areas such as blood fridges. Apart from compliance with MHRA and CPA requirements, the new system also gives peace of mind because all areas are alarmed.

## Case History 2

### Customer: A Healthcare Trust

The customer wanted to upgrade existing temperature monitoring methods. These relied on a combination of equipment displays, data loggers, chart recorders and manual recording which,



## Other Services from Comark

### Temperature Mapping

Comark offers user-friendly methods for temperature mapping and validation of temperature-controlled storage, making it simpler and cheaper to ensure correct temperatures are being maintained throughout storage areas. Information from the temperature mapping can then be used to identify hot and cold spots or validate specific areas.

### On-Site Service

Comark's dedicated service team provide national coverage for UKAS accredited on-site certification. You have peace of mind and safeguard your reputation knowing that instruments perform at optimum levels and meet regulatory guidelines. Plus, certifying equipment on-site saves downtime in your operation.

# medical

measuring and monitoring in the Healthcare industry

www.comarkltd.com or www.comarkusa.com



## WARRANTY

All Comark instruments have a minimum one year warranty unless otherwise stated. The warranty period for temperature probes is for six months and all other probes and electrodes are unwarranted because the conditions of use are beyond our control.

The Comark warranty covers manufacturing defects and component failures on all products returned to Comark premises and applies worldwide. The warranty does not affect your statutory rights. In line with our policy of continuous development we reserve the right to alter any product specifications without notice.

All products are covered by our Quality Management System which is compliant with BS EN ISO 9001:2008 for the design, manufacture, supply, service, repair and recalibration of electronic measuring instruments and equipment.

## Comark Instruments

Bury Mead Road, Hitchin, Hertfordshire SG5 1RT UK

Tel: 0844 (+44 844) 8156599

Fax: 0844 (+44 844) 8156598

Email: salesuk@comarkltd.com - UK and Ireland

salesint@comarkltd.com - International

## Comark Instruments

PO Box 500, Beaverton, OR 97077, USA

Tel: (503) 643 5204

Fax: (503) 644 5859

Email: sales@comarkUSA.com



CERTIFICATE No. FM29700



0451



# What makes Comark the experts?

A thorough understanding of temperature regulations and guidelines within the healthcare, clinical research, laboratory and pharmaceutical sectors, combined with an advanced range of premium temperature measurement products, makes Comark uniquely qualified to advise and help relevant organisations achieve compliance and safeguard reputations.

Companies and organisations operating within the above sectors habitually apply due diligence methods to aid traceability and maintain temperature/humidity records, but as monitoring technology has become more sophisticated, so regulators are requiring more comprehensive temperature monitoring and reporting methods.

The MHRA for example, is pushing for continuous temperature monitoring right across the cold chain - from manufacture and storage right through to transportation. Applied effectively, this not only provides evidence that stringent safety and quality standards are being maintained, it also helps to ensure hard won reputations are protected. Many organisations already specify Comark Instruments to ensure that all relevant standards continue to be met.

## Typical Applications

### Healthcare and Laboratories

Common requirements are monitoring and maintaining accurate records of the operating temperatures of key equipment such as fridges, freezers, incubators and water baths, or monitoring the ambient temperature in sensitive work areas. With many healthcare and pharmaceutical companies becoming increasingly global organisations, it is more



important than ever to have safeguards in place to protect temperature sensitive medicines. The industry is highly regulated and costly and sensitive products

could be in danger if optimum storage temperature and humidity levels are not maintained - and there's the added risk of product recalls and loss of reputation. Comark solutions include the RF500 wireless monitoring system and Diligence EV data loggers.

**The RF500 System** allows constant 24/7 wireless monitoring

of a range of environments, including fridges/ freezers where highly sensitive products are stored, with the data transmitted back to a central 'Gateway' unit.

For those working in laboratories where highly valuable samples or irreplaceable trial materials are stored, traceability is assured and legislative requirements are



met with a network of alarms set to detect for any 'out-of-range' incidents that could damage stock.

By incorporating an RF512 transmitter, it is possible to measure and monitor blood core temperatures using a special duplex probe inserted into a blood bag containing a glycerol solution, then positioning it amongst the stored blood. Because each channel of the RF512 transmitter can be programmed with different alarm temperatures and different alarm delays, simultaneous monitoring of the air temperature of the fridge/freezer can also be achieved. It is possible to dictate a short time delay for the fridge temperature and have a zero time delay for alarm notification from the blood core sensor, thereby aiding compliance with MHRA and CFR 21 Part II guidelines\*

This is not a system for critical care as a first line of alarms.

\*Please check recommendations for your particular application.

### Diligence EV Data Loggers

are independent stand alone units and are ideal for smaller operations. These can provide continuous monitoring of fridges and freezers and reporting is via a specialist software package.

### Hand Held Thermometers

Hand held thermometers can be found in daily use throughout all sectors from pharmaceutical production areas through to pathology and haematology labs. Comark offers a choice of instruments built to withstand rough treatment that feature easy to clean waterproof cases, incorporate sealed soft touch keypads and are supported by an extensive range of core, surface, liquid and air probes. Uniquely, all Comark C and N series thermometers incorporate BioCote®. Antimicrobial\* for increased protection when used in areas where cross-contamination could be an issue.

**C Series Thermometers** cover most day to day applications and are ergonomically designed for ease of use and comfort in the hand.

\*For full product specifications and information on BioCote®, visit [www.comarkltd.com](http://www.comarkltd.com)

### N5001 HACCP Auditor

