



**COMARK**

A Fluke Company



# Comark Instruments

Measuring and monitoring temperature  
Temperature Mapping Kits



The Professionals' Choice

# Why map?

## Verify cold storage conditions for temperature sensitive products

An audit requirement for many compliance regulations is to have documented evidence that temperature sensitive products in healthcare and food are kept in the correct cold storage conditions.

If you are storing biochemical products such as tissue samples, medications and vaccines or foodstuff from fresh fruit and vegetables to frozen food, dairy and meat products, you will need documented evidence that sufficient checks are in place.

The temperature of different spaces within cooling rooms, industrial fridges and other controlled temperature environments can vary by up to 10°C. The central space will maintain the most constant temperature, while the corners and areas surrounding the fans and access points will fluctuate.

Temperature Mapping is used to verify that cooling systems maintain an acceptable temperature level for given products at all times and identify any potential areas that may be unsuitable to store products.

Meet compliance audit requirements with documented evidence

### N2000 Series Temperature Logging Kits

The use of data loggers to map temperatures in critical cold chain locations is common practice and the Comark N2000 series of loggers is widely used throughout healthcare, pharmaceutical and other industries with the NHS Blood transfusion service and Public Health England both major users.

Many organisations use third party companies to perform temperature mapping but this can be very expensive and often unnecessary which is why we have put together three kits that will allow you to setup temperature mapping specific to your needs at a fraction of the cost of outsourcing.

All our kits come with a selection of loggers, download of the FREE EV-Pro logging software, a USB docking station and a carry case for easy storage and transportation.

Every temperature logger or probe in any of the mapping kits is accompanied by a UKAS calibration certificate, produced by our ISO 17025 accredited laboratory to aid with your compliance.

### Features

- Tough, moulded cases, dust and waterproof to IP67 standards
- Large memory capacity of up to 16,000 readings
- LCD display with ability to scroll between readings for instant local checks on current status
- Red LED indication of alarm conditions backed up by an additional beeper warning
- FREE Windows™ based Evolution software
- Wide range of Comark temperature probes available
- Battery Life Up to 5 Years





### Cold Storage Mapping Kit

The N2000CSMKIT Cold Storage Mapping Kit is designed to allow you to map any cold storage facility at specific temperatures chosen by you. Unless specified otherwise at the time of ordering, the 5-point UKAS certificates will be at the following points: -18°C (Freezer), 0°C (Force Chilled Cold Rooms/Fridges), +5°C (Force Chilled Cold Rooms/Fridges), +20°C (Warehouse Temperature), +30°C (Warehouse Temperature). The kit comes complete with carry case, software and docking station and the following equipment:

- Measurement range -40° to 70°C with accuracy ±0.5°C
- 10 x N2011 Multi-Use Temperature Data Loggers
- 10 x UKAS Certificates (See above for details on points)
- 1 x N2000CRU Computer Docking Station
- 1 x LC28 Durable Carry Case



### Blood Bank Mapping Kit

The N2000BBKIT1 has been created to allow quality professionals to map storage areas and the transit of blood throughout the blood bank and transfusion service. The kit comes complete with carry case, software and docking station and the following equipment:

- Measurement range -40° to 70°C with accuracy ±0.5°C
- 10 x N2011 Multi-Use Temperature Data Loggers
- 10 x UKAS Certificates (-20°C, 0°C, and 8°C)
- 1 x N2014 Multi-Sensor Temperature Data Logger
- 1 x N2000ADP/T Adapter for multiple probes
- 3 x AT26M Flexible Wire Air Probes
- 3 x UKAS Certificates at -40°C and -80°C (for FFP Freezers)
- 1 x N2000CRU Computer Docking Station
- 1 x LC28 Durable Carry Case



### Incubator and Fridge Mapping Kit

The N2000FRMKIT Incubator and Fridge Mapping Kit is the only kit on the market specifically designed for mapping incubators and fridges within the healthcare environment. The four probes, along with the internal sensor, makes this kit ideal for mapping 5 points on a shelf in incubators/fridges.

Incubator temperatures vary from site to site which is why you can choose up to 5 points for your UKAS certification. Unless specified otherwise at the time of ordering, the 5-point UKAS certificates will be at the following points: +5°C (Force Chilled Cold Rooms/Fridges), +22°C (Other Incubator), +37°C (Tissue Incubators), +44°C (Other Incubator), +65°C (Other Incubator). The kit comes complete with carry case, software and docking station and the following equipment:

- Measurement range -40° to 70°C with accuracy ±0.5°C
- 3 x N2012 Multi-Channel Temperature Data Logger
- 1 x N2000CRU Computer Docking Station
- 1 x LC28 Durable Carry Case
- 12 x RFAX200 PST Air Probe
- 3 x N2000BOX Multi-Link Box
- 15 x UKAS Certificates (See above for details on points)



## Contact Us

We understand there are times when our customers may need guidance on the best solution for their requirements. If you would like further information or to discuss your temperature monitoring application, please contact our customer service department who will be pleased to assist.

We are here to help so please contact us on:

Telephone:  
**+44 (0) 207 942 0712**

Email:  
**sales@comarkinstruments.com**

Website:  
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## EV Software

The FREE EVSW PRO is the proven software package for programming, data retrieval and data storage is compatible with all Diligence EV Data Loggers. This version has been developed with leading Pharmaceutical Companies who are required to work within the confines of 21 CFR Part 11 and Good Manufacturing Practice. The EVSW PRO has a number of additional features that this market requires such as:

- Users login to the Software
- Customisable User Preferences to restrict access to certain functions
- A full Audit Trail is provided
- Additional Filtering Options are available
- All Loggers coming into contact with the EVPRO software will be password protected to ensure that data is secure

Otherwise the features in EVSW PRO are the same as the regular version Diligence EV Software (EVSW) below.

- Quick program function for faster instrument set up
- Data presentation in tabular or graphical form with extensive presentation options
- Selectable high and low alarm levels
- Selectable logging intervals
- Multi-lingual
- Designed for Windows 7 and above (32- and 64-bit) – Now Windows 10 compatible!

