



## Automatic temperature monitoring and log will ensure the cool chain

### Automatic log system for temperature monitoring

The Boomerang system has successfully monitored and logged temperatures in laboratories since 1998. Boomerang does not only measure temperatures in refrigerators and freezers, you will also have quick and easy access to temperature history records, back-ups, reports and of course notifications (alarms) on deviations from normal states.



### Boomerang in cold storage:

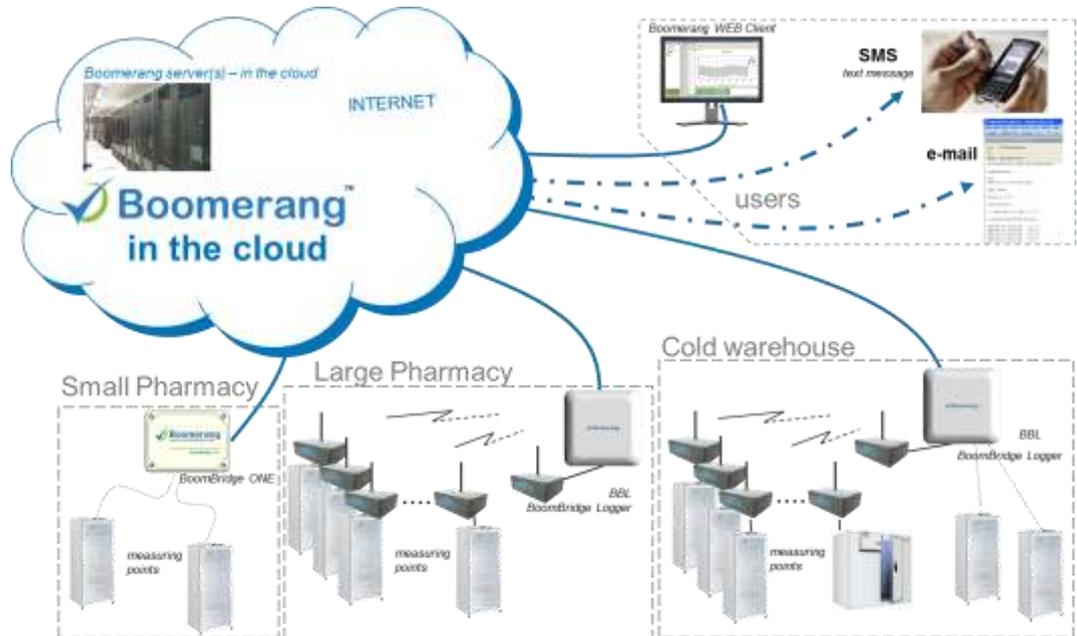
- Continuous monitoring and log = Traceability
- Automatic documentation = Quality assurance
- Deviation alarms, reports, backup = Safety / Security

...which means that you save both time and money!



## Central temperature logging for all kinds of cold storage

Automatic temperature monitoring and log can easily be implemented in all cold storage facilities, ranging from small pharmacies with one or two refrigerators up to large cold warehouses at worldwide logistics and transport companies. Boomerang can connect the local facilities in large pharmacy chains into one central temperature monitoring and log system, as well as large logistics corporations that can use Boomerang to centralise monitoring and quality assurance of their cold storage sites spread all over the world.



## Installation and access is fast and easy

The installed sensors and probes will communicate to a BoomBridge unit via wires or wireless depending on size and appearance of your facility. You will have instant alerts on any deviation from normal temperatures and user friendly web-access to historic data for monitoring trends and behavior of your cold storage units.

## Boomerang can be installed in your existing refrigerators

The Boomerang system can easily be installed in both new and existing refrigerators, and when you upgrade your refrigeration plant it is easy to move the sensors and probes to your new fridges.





## History data

All measured data are stored and you can easily see history records.

The log is presented in graphs. You can view measured data from each measuring point, with diagram, alarm settings, deviations and events.

## Backup copy

All data are backed up and data integrity of the Boomerang system assures that you will always have access to historic data when you need it.

## Monitoring and alarm system

The Boomerang system supervises every measuring point, within the interval that has been chosen. The system reacts instantly to deviations from pre-set limits and you will get an alarm message via SMS, e-mail or other indication.



## Sensors

You can connect a lot of different sensors and probes to the system; e.g. temperature (from  $-196^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$ ), humidity (RHT),  $\text{CO}_2$ , pressure and more...

## Log during transport

To ensure that you have control of the cool chain you might also want to monitor and log temperatures during transport. In Boomerang we have two options to do this.

- Transport logger; logger cards in packages sent
- Remote loggers; online monitoring in trucks via GPRS/3G



## Calibration

ICU Scandinavia performs qualified calibration services for temperatures in cold storage facilities. We provide in-system calibration at your own premises, documented with complete calibration protocols for full traceability.

Our calibration personnel are trained and certified. Our calibration equipment and references are calibrated with the highest accuracy at an AKL0076 accredited laboratory, being accredited according to ISO/IEC 17025.





**For more information about Boomerang,  
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