

# TEMPERATURE DOCUMENTATION with KIRSCH-DATANET

A maximum of quality assurance for your refrigerated goods - seamless, easy, reliable

Seamless and reliable temperature documentation is often mandatory for quality assurance (e. g., for blood and pharmaceutical cooling). Manual recording of data requires valuable time and is often incorrect. Save your precious time and let our KIRSCH-DATANET software do the work.



**KIRSCH-DATANET software**  
Seamless temperature documentation and analysis of the data as well as real-time monitoring of your refrigerating devices (software is included).



**PC-KIT-NET**  
Automatic temperature documentation and monitoring via network. An unlimited number of devices can be connected. (Can be also connected to a Wi-Fi transmitter.)



**PC-KIT-USB-MONITORING**  
Automatic temperature documentation and monitoring via USB for up to 32 devices. Single-user version.



**PC-KIT-STICK**  
Temperature documentation via USB stick. Unlimited devices can be connected.



**KIRSCH-DATALOG**  
Retrofitting temperature documentation for devices without an RS485 interface and for third party devices.

## ADVANTAGES

- **Cost-effective:**
  - Reduced effort due to automatic logging
  - Software is included
- **Easy:**
  - Temperature documentation via Windows® PCs
  - Data is automatically collected in refrigerators and freezers
  - Automatic readout and storage
  - Configuration of your cooling devices directly via your PC
  - The recorded data is automatically sent by e-mail
  - Read and transmit data via USB stick
- **Flexible:**
  - Easy retrofitting for KIRSCH devices equipped with an RS485 interface, otherwise via KIRSCH-DATALOG
- **Safe:**
  - Document and evaluate up to 39 values that are relevant for the functioning of the refrigerator/ freezer (e.g., door openings, alarm messages, etc.)
  - Decentralised hazard control is possible
  - Selectable alarm messages are transmitted by e-mail

# Temperature documentation at a glance

You have several options to document the temperature of your refrigerators and freezers. The most decisive factor is the efficiency and safety of your data and refrigerated goods.

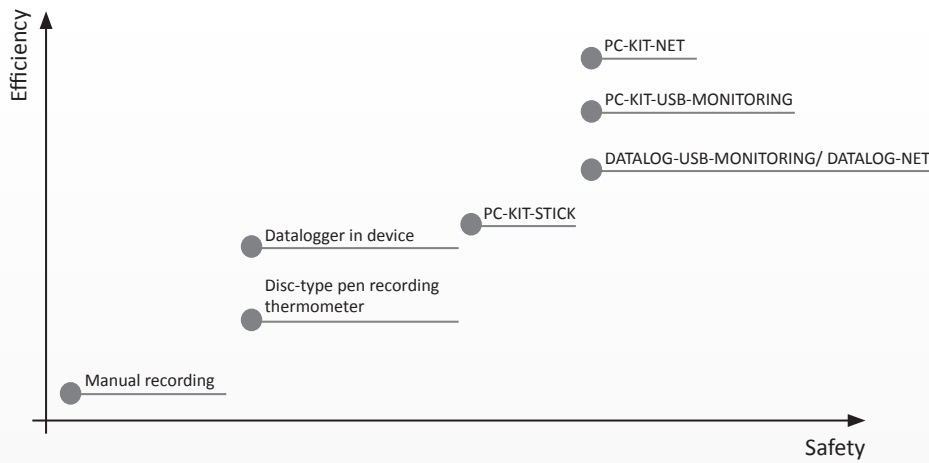


Fig. 1: Diagram on efficiency and safety of different temperature documentation options

Temperature documentation	Description	Manpower requirements	Automatic documentation	Seamless documentation	Monitoring	Messaging in case of power failure	Data export
Manual recording	Daily and multiple readings of thermometer values.	High	○	○	○	○	○
Disc-type pen-recording thermometer	The disc-type pen-recording thermometer documents the temperature with a separate sensor. The temperature history is shown on the disc and can be viewed directly. The recording disc must be changed in regularly every 7 days.	Medium	●	○	○	○	○
Datalogger in device	The Datalogger is placed in the interior of the refrigerator and records the temperature development. To read the stored data you need to take it out of the refrigerator and connect it to the PC.	Medium	●	○	○	○	●
PC-KIT-STICK	In addition to temperature recording, this enables you to store data about, e.g., opened doors, alarms, etc. on the control panel of your refrigerator. The stored data can simply be downloaded to a USB stick and read using the included KIRSCH-DATANET software. Seamless documentation is possible.	Medium	●	●	○	●	●
DATALOG-USB-MONITORING	To retrofit temperature documentation and alarm functions. Temperature monitoring and recording only. Compatible with third party refrigerators. The measured data is transmitted automatically to the KIRSCH-DATANET software by a USB cable. Real-time monitoring is possible if the software is activated on the PC.	Minor	●	●	●*	●	●
DATALOG-NET	Same as DATALOG-USB-MONITORING, but connection via TCP/IP gateway. The data is transmitted automatically to the KIRSCH-DATANET software. Real-time monitoring is possible if the software is activated on the PC.	Minor	●	●	●*	●	●
PC-KIT-USB-MONITORING	Same as PC-KIT-STICK however, the data is transmitted automatically via USB cable to the KIRSCH-DATANET software. Real-time monitoring of the temperature profile is possible if the software is activated on the PC.	Minimal	●	●	●*	●	●
PC-KIT-NET	Same as PC-KIT-STICK, but the data is transmitted by network to the software that can be installed on a PC or on a server. Real-time monitoring is possible if software is activated on the PC. Alarm messages immediately pop up on screen, so that counteractive measures can be effected.	Minimal	●	●	●*	●	●

● = Yes, ○ = No

\* possible only with activated software on PC and active gateway connection

Manpower requirements can be:

Manual monitoring and recording, coordination and management (e.g., using datalogger or by changing recording discs), transmitting the stored data from the refrigerator to the PC (e.g., PC-KIT-STICK) etc.

# KIRSCH-PC-KIT

We provide three solutions for your individual requirements for electronic temperature documentation. Suitable for all KIRSCH devices with a RS485 interface.

	PC-KIT-NET (applicable on server or PC)	PC-KIT-USB-MONITORING (applicable only on single-seat PC version)	PC-KIT-STICK (applicable only on PC)
Description	Electronic temperature documentation and monitoring in a network. Automatic data transmission to server or PC.	Electronic temperature documentation and monitoring without network connection. Automatic data transmission to PC.	Electronic temperature documentation and data transfer via USB-Stick.
Mode of operation	Data recording in the controller of the refrigerator. Data transmission via TCP/IP gateway and network connection or even by Wi-Fi.	Data recording in the controller of the refrigerator. Data transmission via USB gateway (USB cable connection) and series connection.	Data recording in the controller of the refrigerator. Data transmission via USB stick.
Number of evaluated values	39	39	39
Data analysis with KIRSCH-DATANET software	●	●	●
Number of devices for connection	Unlimited (each device needs a PC-KIT-NET unit)	Up to 32 devices (each device needs a PC-KIT-USB-MONITORING unit)	Unlimited (each device needs a PC-KIT-STICK unit)
Global access	●*	○	○
Selected alarm messages are transmitted via e-mail	●	●	○
Data recording for up to 72 hours in case of power failure	●	●	●
Requirements	<ul style="list-style-type: none"> <li>■ Network connection at location of the device</li> <li>■ Each device needs its own TCP/IP gateway and fixed IP address</li> <li>■ Operating system for server and PC: Windows®</li> <li>■ For Wi-Fi: Ethernet-to-Wi-Fi adapter</li> </ul>	<ul style="list-style-type: none"> <li>■ USB port on the PC</li> <li>■ To connect more than one refrigerator you need one PC-KIT-USB-MONITORING standard-KIT to connect up to 31 devices each equipped with an extension-KIT</li> <li>■ Operating system: Windows®</li> </ul>	<ul style="list-style-type: none"> <li>■ USB port on the PC</li> <li>■ Operating system: Windows®</li> </ul>
Retrofitting	<ul style="list-style-type: none"> <li>■ For all KIRSCH devices with RS485 interface</li> </ul>	<ul style="list-style-type: none"> <li>■ For all KIRSCH devices with RS485 interface</li> </ul>	<ul style="list-style-type: none"> <li>■ For all KIRSCH devices with RS485 interface</li> </ul>
Scope of delivery	<ul style="list-style-type: none"> <li>■ TCP/IP gateway</li> <li>■ Datalogger board</li> <li>■ Lead battery pack</li> <li>■ Cat-5 data cable, 5 m</li> <li>■ Attachment bracket</li> <li>■ Grounding clip for data cable</li> <li>■ KIRSCH-DATANET software</li> <li>■ Shielded data cable</li> </ul>	<p><b>Standard-KIT:</b></p> <ul style="list-style-type: none"> <li>■ USB gateway</li> <li>■ Datalogger board</li> <li>■ Lead battery pack</li> <li>■ USB cable, 1 m</li> <li>■ Shielded data cable, 10 m</li> <li>■ Grounding clip for the data cable</li> <li>■ KIRSCH-DATANET software</li> </ul> <p><b>Extension-KIT:</b></p> <ul style="list-style-type: none"> <li>■ Datalogger board</li> <li>■ Lead battery pack</li> <li>■ Shielded data cable, 10 m</li> <li>■ 2 x grounding clip for data cable</li> </ul>	<ul style="list-style-type: none"> <li>■ USB stick</li> <li>■ Control panel equipped with a USB readout unit</li> <li>■ Datalogger board</li> <li>■ Lead battery pack</li> <li>■ KIRSCH-DATANET software</li> </ul>

# KIRSCH-DATALOG

To retrofit temperature documentation and monitoring for KIRSCH cooling devices without an RS485 interface and for third party devices. Complies with essential requirements of DIN specifications\*, e.g., visual and audible alarm in case of temperature deviations. You can choose between two solutions:

- **DATALOG-USB-MONITORING** (single-seat PC version) connection via USB gateway <sup>1)</sup>
- **DATALOG-NET** (network solution) connection via TCP/IP gateway <sup>1)</sup>

\* DIN 58371 (blood storage), DIN 58375 (blood plasma storage), 58345 (pharmaceutical storage)  
<sup>1)</sup> via integrated RS485 interface

Retrofits temperature documentation and monitoring for KIRSCH cooling devices without an RS485 interface

Connects third party devices to the monitoring circuit

Industrial housing according to protection class IP65; protection against dust and water

Minimum/ maximum temperature memory and adjustable setting for warning threshold

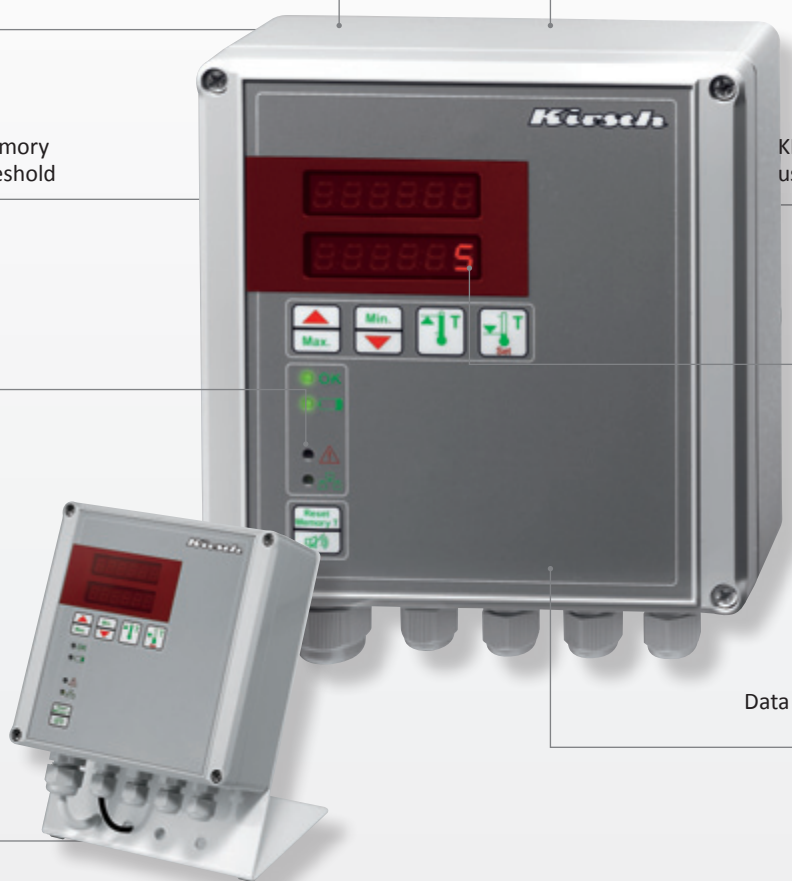
KIRSCH-DATANET software is used for analysing data

Visual and audible alarm in case of temperature deviations

Digital temperature display

Mounting bracket for KIRSCH-DATALOG optional

Data recording for up to 72 hours after power failure



## Scope of delivery:

### DATALOG-NET

- KIRSCH-DATALOG connected to a temperature sensor and a 10-m data cable
- TCP/IP gateway
- Cat-5-cable, 5 m
- Wall-mounting set
- KIRSCH-DATANET software
- Can also be used in refrigerators and freezers with explosion-proof interior applications. For this purpose, the temperature sensor is connected via a safety barrier

### DATALOG-USB-MONITORING

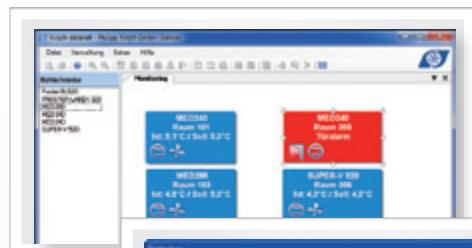
- KIRSCH-DATALOG connected to a temperature sensor and a data cable
- USB gateway
- USB cable, 1 m
- Wall-mounting set
- KIRSCH-DATANET software
- Can also be used in refrigerators and freezers with explosion-proof interior applications. For this purpose, the temperature sensor is connected via a safety barrier

# KIRSCH-DATANET software

(the software package is included for each version of electronic temperature documentation)

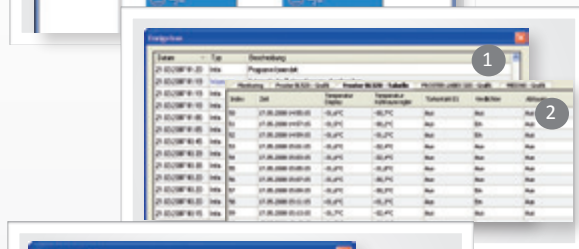
Minimum effort and maximum safety thanks to:

- automatic evaluation and documentation of up to 39 values of your cooling devices,
- real-time monitoring (except PC-KIT-STICK), also for remotely positioned devices,
- efficient management structures thanks to remote access to the server,
- possible integration into your existing server security environment,
- three different types of user profiles (administrator, user, guest),
- each time the KIRSCH-DATANET software launches, the program independently establishes a connection to the linked cooling devices and updates the data automatically,
- data can be either sent by e-mail or exported to other programs.



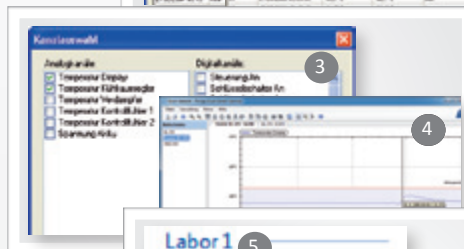
## Monitoring: Permanent control of your chilled goods

With the assistance of the monitoring function you can monitor the current status of your cooling devices in real time. Alarm messages emitted from remotely positioned devices (e.g., door alarm in a device located in the basement) are displayed on the monitor. You can thus initiate immediate measures before damage occurs.



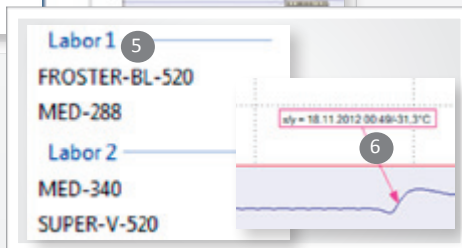
## Tabular overview

- 1 Documentation of the software status and settings or changes made by user.
- 2 Chronological list of events that occurred in the device with exact date and time indication.



## Channel selection

- 3 Selection of analogue or digital channel is possible.
- 4 Temperature profile of a refrigerator or freezer.



## Device grouping and comment function

- 5 Organization of the devices by group (for example, models, departments, etc.).
- 6 Comments can be inserted directly in the graph, as are eg Deviations and immediately recognizable explained.

## System requirements:

### Hardware (minimum requirements):

- 2GHz Intel Core processor or AMD Opteron, AMD Phenom processor
- 1GB RAM
- 1GB free disc space, in addition to space for data recordings
- 1024x768 pixel graphic resolution and 32-bit colour depth
- 1 x USB 1.1 for connecting a USB gateway on the server side
- 1 x 100 or 1000 Mbps RJ45 LAN interface for connecting a TCP/IP gateway on the server side

### Operating system (the following operating systems are supported):

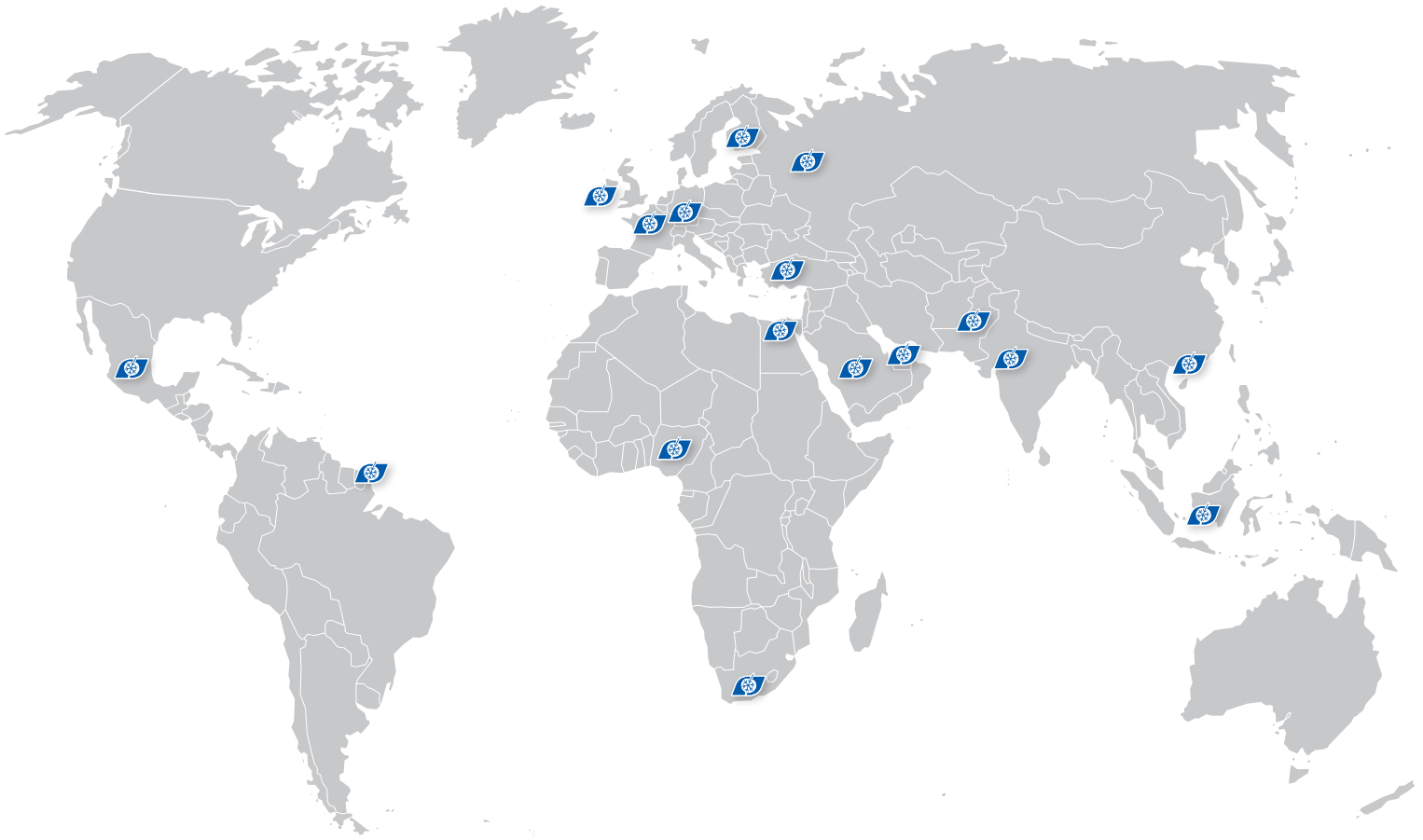
- Windows XP SP3
- Windows Server 2003 SP2
- Windows Vista SP1
- Windows Vista SP2
- Windows Server 2008 (not Server Core Role)
- Windows 7 SP1
- Windows Server 2008 R2 (not Server Core Role)
- For x86 und x64; for Windows XP only x86
- Windows Server 2012
- Windows 8 Professional (not RT version)

### Software (the following software is a prerequisite):

- .NET Framework 4.0 (made available at setup)
- Microsoft Internet Explorer 6.0 with Service Pack 1
- Windows Installer 3.1
- FTDI driver for USB gateway on the server side (made available at setup)

# Used in more than 100 countries.

Some examples:



If you have any questions, please do not hesitate to contact us.  
We will be pleased to assist you.

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