KIRSCH-DATANET Software Package

KIRSCH-DATANET

Our KIRSCH-DATANET software package reduces your data documentation efforts. It provides for complete documentation and enables an evaluation of up to 39 values, which are needed for regulating a Kirsch cooling device. When it is permanently connected to a PC or server, data recording is automatically performed, which minimises personnel efforts in view of documentation. You can either send your data via e-mail or export it to other programs.

Documentary information is oriented on the past and serves the purpose of determining incurred damage. With the assistance of the monitoring function, however, you can monitor the current status of your cooling device in real time. Alarm messages emitted from decentrally installed devices (e.g., door alarm in a device located in the basement), are displayed on the monitor. You can thus initiate remedial measures before damage occurs.

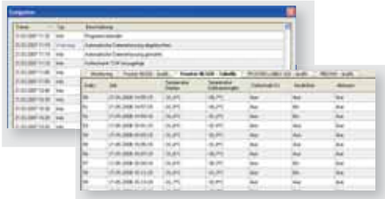
Profit from the advantages of efficient administration structures, by running DATANET on a server. Thanks to permanent data recording and monitoring, you achieve maximum automation and a reliable safeguard for your chilled goods. Moreover, the software is integrated into your existing server security environment. Via remote access to the server, you can prompt the status of your Kirsch cooling devices from any corner of the world. Monitoring regionally distributed devices in a central monitoring station is thus no problem. Three different types of user profiles (administrator, user, guest) permit you to allocate access rights in accordance with the user's authorisation.

Even if you do not permanently run DATANET, a high degree of automation and temperature documentation is possible. Each time DATANET is launched, the program independently establishes a connection to the connected cooling devices and updates the data.

▲ **Monitoring**

▼ **Tabular overview**

of the measured values that were read in



▲ **Logfile**

Chronological list of incidents that occurred in the refrigerator or freezer

▼ **Channel selection**

The password-protected analogue and digital channels to be represented can be selected here.

▲ **Overview of the program window**

Software for evaluation and documentation on CD-ROM

SYSTEM REQUIREMENTS

Operating System

The following operating systems are supported:

- Windows XP SP3
- Windows Server 2003 SP2
- Windows Vista SP2
- Windows Server 2008 (not Server Core Role)
- Windows 7 SP1
- Windows Server 2008 R2 (not Server Core Role)
- For x86 and x64. In regard to Windows XP, only x86

Hardware

The following minimum requirements are made on the hardware:

- 2 GHz Intel Core Processor or AMD Opteron, AMD Phenom Processor
- 1 GB RAM
- 1 GB free disc space, in addition to space for data recordings
- 1024 x 768 pixel graphic resolution. 32-bit colour depth
- 1 x USB 1.1 for connecting a USB gateway on the server side
- 1 x 100 or 1000 MBit/s RJ45 LAN interface for connecting a TCP/IP gateway on the server side

Software

The following software is a prerequisite:

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

INNOVATION AND QUALITY – SINCE 1865

Ever since our founding in 1865, we stand for high-quality products, which not only meet the most demanding standards, but provide the maximum in reliability. Our products are being used all over the world – from the tropics to the far north. The experience we gain continuously flows into our product innovations. As our products are being manufactured in-house, we can perfectly match and align the components of our refrigerators and freezers. For this reasons, we are a worldwide market leader in regard to temperature constancy.

Our Product Portfolio

- Pharmaceutical refrigerators
- Pharmaceutical freezers
- Blood plasma refrigerators
- Blood plasma freezers
- Laboratory refrigerators
- Laboratory freezers
- Multi-user refrigerators
- Temperature documentation

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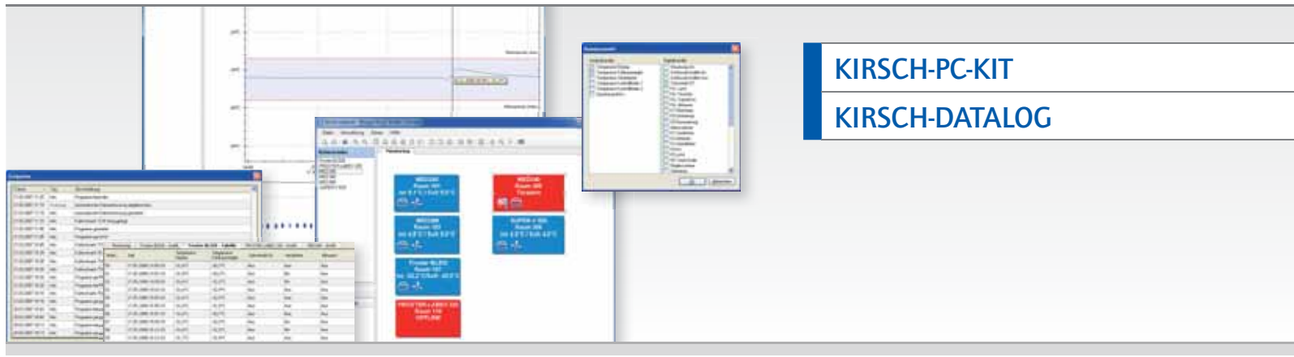

KIRSCH-PC-KIT
KIRSCH-DATALOG

Temperature Documentation

Quality assurance requirements often stipulate complete and reliable temperature documentation. Manual on-site data logging is often extremely time-consuming and imprecise. Using our PC-KIT and DATALOG solutions, you can quickly and easily perform this job.

PC-KIT-NET

Automatic temperature documentation and monitoring via the network. Unlimited devices can be connected.

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 sticks. Unlimited devices can be connected.

DATALOG

Retrofitting temperature documentation for devices lacking an RS485 interface, and for devices from other manufacturers.

ADVANTAGES

Cost-effective

- Reduced effort due to automatic logging
- Minimised running costs, as diagram plates/waxed paper strips are no longer needed
- The evaluation software DATANET is included in the purchase price
- An unlimited number of workstations can be connected at no cost.

Easy

- Temperature documentation via Windows® PCs
- Data is automatically logged in refrigerators and freezers
- Automatic readout and storage (PC-KIT-NET and PC-KIT-USB-MONITORING)
- Cooling devices are set directly via your PC (PC-KIT-NET and PC-KIT-USB-MONITORING)
- The recorded data is automatically sent via e-mail (PC-KIT-NET)
- Readout and transmit data via a USB stick (PC-KIT-STICK)
- Unproblematic retrofitting for Kirsch devices equipped with an RS485 interface, otherwise via 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.)
- Hazard control via monitoring is also possible for decentral devices
- Selectable alarm messages are transmitted via e-mail
- Values will be recorded for up to 72 hours after a power outage
- Following transmission, the data is still available in the device (length of time depends on the storage interval set).

The PC-KIT from Kirsch

Three solutions for your individual requirements in view of temperature documentation.

PC-KIT-NET

The PC-KIT-NET enables electronic temperature documentation and monitoring in the network.

Overview

- Monitoring and temperature documentation via the network and software DATANET
- Document and evaluate up to 39 values relevant to operating the refrigerator or freezer: temperature profile, alarm messages, door openings, defrostings, etc.
- Automatic data documentation in adjustable time intervals
- Change device parameters (temperature, warning limits, etc.) via your PC
- Connect as many Kirsch devices to your network as required, and an unlimited number of users
- Server-enabled, which is a distinct advantage in central administration, e.g., maximum automation via permanent data recording and monitoring, connection to the server safety guidelines, 3 different access rights (administrator, user, guest), etc.
- Global access
- Selected alarm messages are transmitted via e-mail
- Data recording up to 72 hours following a power outage

Description

The supplied TCP/IP gateway converts the data captured in the refrigerator (on the datalogger board) and transmits it to the PC or server. The prerequisite is a network port. Each refrigerator and freezer needs its own TCP/IP gateway and a fixed IP address. In this manner, you can connect as many cooling devices to an existing network as required. If DATANET is driven via a server, an endless number of users can simultaneously access the data. Otherwise, up to two users have simultaneous access. Monitoring is possible in both cases.

RS485-interface/Connection for the remote warning system

Retrofitting

All Kirsch cooling devices equipped with an RS485 interface can be retrofitted. Other Kirsch devices or those of other manufacturers can be connected to your network via KIRSCH DATALOG NET.

Scope of delivery

- TCP/IP gateway
- Datalogger board
- Lead battery pack
- Cat-5 data cable, 5 m
- Attachment bracket
- 2 x self-cutting screws
- Grounding clip for the data cable
- KIRSCH-DATANET software package

PC-KIT-USB-MONITORING

For electronic temperature documentation and monitoring without a network connection.

Overview

- Temperature documentation and monitoring of up to 32 Kirsch refrigerators or freezers via USB gateway and series connection
- Monitoring is thus possible without a network
- Automatic data documentation in adjustable time intervals
- Change device parameters (temperature, warning limits, etc.) via your PC
- Document and evaluate up to 39 values relevant to operating the refrigerator or freezer: temperature profile, alarm messages, door openings, defrostings, etc.
- Data recording up to 72 hours following a power outage

Description

The supplied USB gateway converts the data captured in the refrigerator (on the datalogger board) and transmits it to the PC. With the assistance of the KIRSCH-DATANET software package to be installed on the PC, monitoring, automated data processing in adjustable intervals, as well as parameter changes of the cooling device can all be performed via your PC. The **Standard Kit** contains the USB gateway. Should you wish to connect more than one refrigerator/freezer, you will need an additional **Extension Kit** for each device to be connected. Up to 31 extension kits can be connected in series to the USB gateway of the standard kit. The maximum total cable length is 200 meters. You will need an additional standard kit should you wish to connect more than 32 cooling devices.

Retrofitting

All Kirsch cooling devices equipped with an RS485 interface can be retrofitted. You can connect other Kirsch devices or those of other manufacturers to your network via DATALOG-USB-MONITORING.

Scope of delivery for the Standard Kit

- USB gateway
- Datalogger board
- Lead battery pack
- USB cable, 1 m
- Shielded data cable, 10 m
- Grounding clip for the data cable
- KIRSCH-DATANET software package

Scope of delivery for the Extension Kit

- Datalogger board
- Lead battery pack
- Shielded data cable, 10 m
- 2 x grounding clips for the data cable

PC-KIT-STICK

The easiest way of electronic temperature documentation via USB stick.

Overview

- Easy temperature documentation via USB stick
- No cabling required
- Document and evaluate up to 39 values relevant to operating the refrigerator or freezer: temperature profile, alarm messages, door openings, defrostings, etc.
- Evaluate the refrigerator/freezer with the KIRSCH-DATANET software package
- Data recording up to 72 hours following a power outage

Description

To readout the data, a USB port is integrated in the control panel of the cooling device. Connect the supplied USB stick to the USB port. Data transfer is triggered by pressing the readout key. When the readout procedure is completed, it will be indicated in the display. The stick can be removed and inserted into the USB port on the PC. The data readout from the stick, as well as the evaluation, is performed via DATANET. Monitoring is not supported in this version.

Retrofitting

Only the current Kirsch products can be retrofitted with PC-KIT-STICK (except for MED-85/-125, FROSTER-MED-70, SPEZIAL-282/-432, LABO-85/-125, LABEX-125, FROSTERLABEX-70, GEM models). Models delivered as of July 2010 will recieve a new panel with a USB port. It might be necessary to replace the control board in older models. In this case, please contact us.

Scope of delivery

- USB stick
- Control panel equipped with a USB readout unit
- Datalogger board
- Lead battery pack
- KIRSCH-DATANET software package

KIRSCH-DATALOG

Connect your older Kirsch models and devices from other manufacturers to the digital temperature documentation.

KIRSCH-DATALOG

With the KIRSCH-DATALOG, you can retrofit older Kirsch devices, or those not equipped with an RS485 interface (e.g., MED 85, MED 125) for temperature documentation and monitoring. Devices from other manufacturers can also be connected to our temperature documentation software DATANET – regardless of whether it's a refrigerator or heating cabinet.

Overview

- Retrofit temperature documentation and monitoring for Kirsch cooling devices without an RS485 interface (e.g., MED 85, MED 125)
- Connect devices from other manufacturers to the monitoring circuit
- 2 versions
  - DATALOG-NET to connect the refrigerator/freezer to your network
  - DATALOG-USB-MONITORING as a single-user solution
- Evaluate the refrigerator/freezer in the KIRSCH-DATANET software package
- Digital temperature display
- Warning system in the case of temperature deviation
- Potential-free contact
- Data recording up to 72 hours following a power outage

Description

The KIRSCH-DATALOG enables temperature monitoring and recording of Kirsch refrigerators or freezers that are not equipped with an RS485 interface, or cooling devices of other manufacturers. For this purpose, a temperature sensor is installed inside the refrigerator or freezer. Data recording is performed via the ring memory in the KIRSCH-DATALOG. In the case of DATALOG-NET, a Kirsch TCP/IP gateway is connected to the integrated RS485 interface, for DATALOG-USB-MONITORING, a USB gateway.

The KIRSCH-DATALOG evaluates the temperature sensor and monitors the upper and lower temperature threshold values. If the threshold value is exceeded, an optical and acoustic alarm is triggered. A remote alarm can be triggered via a potential-free contact. The Li-Ion battery pack ensures that data logging and alarm messages are continued for up to 72 hours following a power outage.

Scope of delivery for DATALOG-NET

- KIRSCH-DATALOG, equipped with a connected temperature sensor and a 10-m connected data cable
- TCP/IP gateway
- Cat-5-cable, 5 m
- Wall-mounting set
- KIRSCH-DATANET software package

Scope of delivery for DATALOG-USB-MONITORING

- KIRSCH-DATALOG equipped with a connected temperature sensor and a connected data cable
- USB gateway
- USB cable, 1 m
- Wall-mounting set
- KIRSCH-DATANET software package

Control panel

Status display

KIRSCH-DATALOG

Mounting angle

for KIRSCH-DATALOG. Optional accessories available at additional cost.