



# Neutrino-GLT Version 9

## Efficient and secure

**kieback&peter**

Technology for Building Automation

# Neutrino-GLT Version 9

## Efficiency and comfort

Your facility is safely under control with Neutrino-GLT building management technology. Intuitive operating menus allow both simple and ease of operation. Individual customization of information visualization and processes provides high transparency. Optimum performance and high operation-, data- and access security are ensured.

The Neutrino-GLT works with the QNX 6 operating system. This ensures secure and efficient operation. This real-time compatible, network oriented, multi-user system meets all demands of modern software technology. The processing power of the hardware is optimally used by supporting symmetrical multiprocessing.

BACnet® and LON® are directly integrated in the Neutrino-GLT and are brought together via a collective user interface. One can connect LON FT10, TP1250 and LON over an IP network.

The Neutrino-GLT scans the LON network and collects all information which is necessary for visualization. The number of network variables and LON nodes is therefore unlimited.

Distant facilities are securely connected by intelligent and cost effective modem management. All connections are automatically controlled. The user has a complete overview and constant control of the modem connection status.

The data structures are administered without address conversion or conversion tables from a high-capacity SQL database. The Neutrino-GLT runs on notebooks, servers and touch panel PCs. Multimedia functions such as sound and video are seamlessly integrated in the facility's operation. Remote control via a web browser is possible as the Neutrino-GLT is also a high-capacity web server.

The Neutrino-GLT web server provides installation charts of the operating level and makes available further programs for operation via a web browser. The installation charts can therefore be entirely used in a network.

The modular construction and the backward compatibility of the Neutrino-GLT allows easy expansion of existing facilities. This secures an owner's investment for years to come.

### The latest Version 9 of the Neutrino-GLT also offers:

- New ease of use, offering individual configuration for each workstation with extensive useful information
- New features to analyze data and facility optimization such as quick retrieval of data and clear trend curves
- Fault indicator statistics
- Simple transfer of data to Microsoft Office programs
- Voice output of malfunction messages
- Simplified parameterization
- Internet security
- Clear and paper-saving documentation





## Security

# Always informed

### Voice output

Important messages are directly converted by the Neutrino-GLT, via a TTS Module (text-to-speech), into voice messages. The voice message corresponds to the text message. The voice message is relayed over the PC's loudspeaker or telephone.

### Malfunction message statistics

Alarms are obvious due to repeated signal notification. The malfunction message statistic is a helpful tool to identify alarms, rectify them and thus provide alarm free and optimal facility working conditions.

The malfunction message statistic provides information on when, who and how. Such as when a specific alarm first occurred, how often it reoccurred, how long it has existed and who corrected the alarm. The statistic can be directly generated from a chart, a table or from the alarm archive file.

The GLT automatically converts the statistic into a CSV table, which can be further processed in conventional Microsoft Office programs. Automatic cyclic documentation of malfunction message statistics are delivered on demand by the GLT "intermittent print" function. This saves time and guarantees continuous information.

### Clear and paper-saving documentation

The Neutrino-GLT Version 9 offers opportunities to save paper resulting from documentation. A documentation preview is produced for each chart and parameter list. Before the print command is sent, the user can select the correct documentation. It is immaterial if the print takes place as a PDF data file or on paper. If necessary it is possible to delete a print order via the GLT's new printer queue management.

Malfunction messages can immediately be sent to the printer. In this way the paper is partly filled and after five to ten minutes dispensed. The new printer queue management can be set-up so that the paper is first dispensed when a complete page is full. The notifications are documented together and paper is saved at the same time.

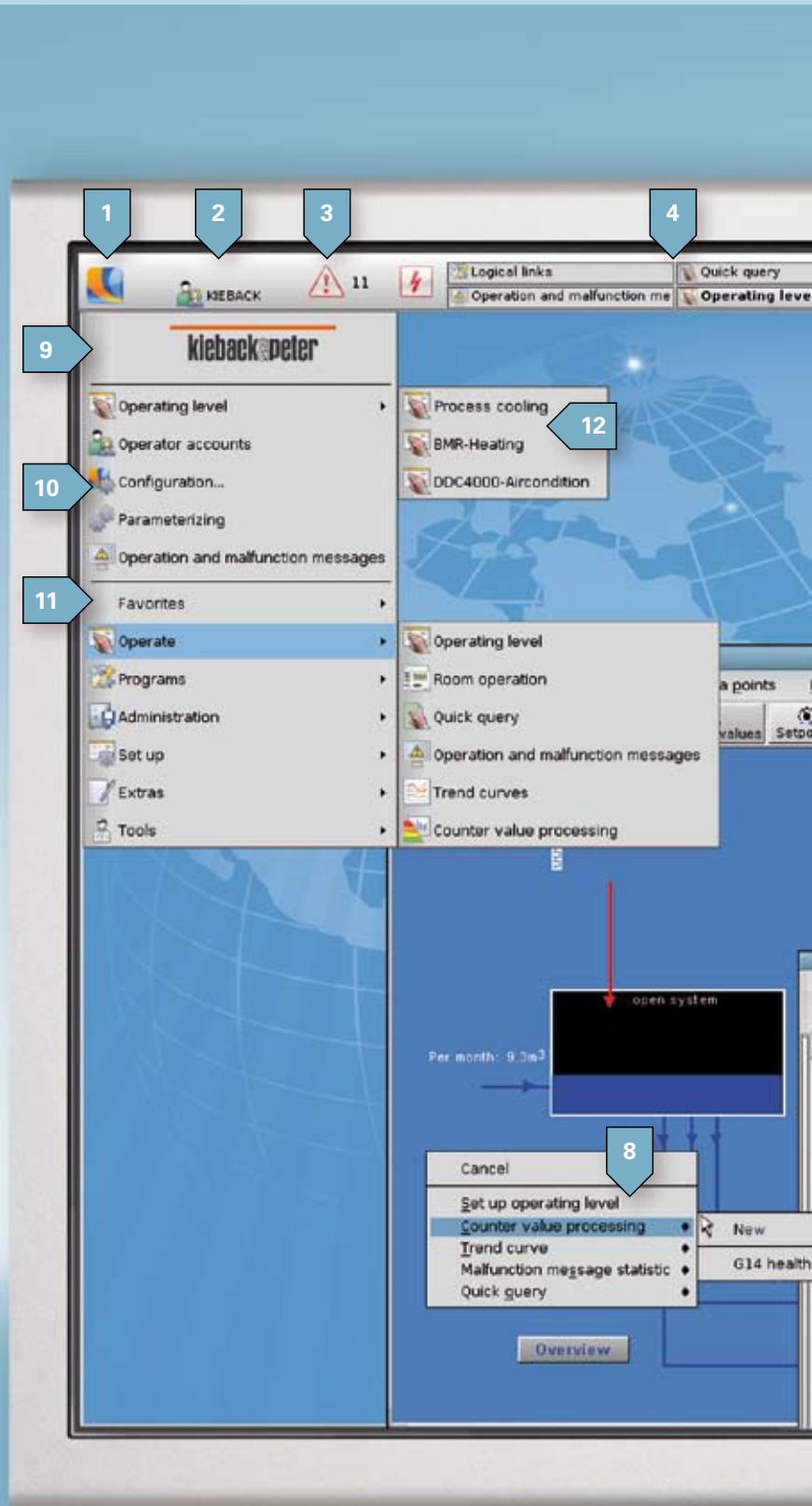
# Easy to use

## Clear and simple

Every user can configure individual operating menus using the program task bar. A TOP-5 list, this feature offers quick access to those applications/functions which are frequently used.

Central operating elements can be specially customized to suit each customer's requirements. In a few simple steps the user receives all important data. The malfunction messages, for example, can be shown on a chart with a simple mouse click – without previous projection. A graphical overview of the existing data can be quickly and simply retrieved into a chart and compared against data stored from the previous year.

Set points and time schedules are easily accessed via a simple left mouse click. With a right mouse click the context menus are activated, which offer all available information for selected data points. Should this data point, for example, be defined as a malfunction, a statistical overview of all events concerning the malfunction is then displayed. Should the data point be defined as a trend, all trend curves are displayed. No matter what information is required, related data can be placed in chart format for review and correction.







A comprehensive system monitor constantly provides information on the status of the system. It shows information about hardware components being deployed, about network utilization, hard disk activity and available memory.

- 1 Start button
- 2 Operator logged-on
- 3 Display of current malfunction message
- 4 Display of open programs, up to 20
- 5 From left to right
  - Modem
  - Printer
  - Time management
  - Automatic data backup
  - Data security
  - System back-up
  - System monitor, display of network resources
- 6 Linked programs
- 7 Counter value statistics
- 8 Graph and context menu
- 9 Exchangeable logo
- 10 Top-5 list of most frequently used programs
- 11 Registered user's favorites
- 12 List of files last opened



## Energy savings Efficient optimization

### Consumption control simplified

New functions simplify data evaluation and installation optimization. Counter consumption processing can be displayed in tabular or graphical form. Potential savings can be quickly identified by comparing the counter values for different periods.

The user can switch between a tabular and a graphical display with a simple click.

Comparing counter values for different time periods simplifies analysis and statistical evaluation.

Consumption control is simplified, weak points and potential savings can be quickly identified.

### Trend curves

Data can be displayed in trend curves. Options such as color, format, scale, etc. can be directly modified by the user and when required.

It is possible with a second time scale to compare, on the screen and in real time, a trend curve or group of trend curves (macros) with other selected time periods.



# Transparency

## Simplified data access

### Simple parameterization

The Neutrino-GLT also makes uncomplicated project planning with large amounts of data. The GLT sorts according to device, address, data point type and application, to which data point they are connected. With the new search and filter possibilities of Version 9 each data point is found quickly and precisely.

The GLT projects are constantly clear and transparent. Features of each data point, for example, long term logging or external access over ODBC can be quickly altered, deleted or assigned via program "Parameterization".

### AKS navigation

If a system ID (AKS) is used the AKS field can be directly filtered and sorted. To simplify navigation, data points can be shown in an AKS derived tree structure. The user can create a tree structure then sort it, for example, by floors or rooms.

### Security

Neutrino-GLT fulfils the highest security standards, for example,

Logbook  
Operator accounts  
Manipulation secure  
All operation inputs traceable



meeting the Government Norm 21 cfr part 11 of the American Food and Drug Administration (FDA). As a result it is also possible to deploy the Neutrino-GLT in security sensitive areas such as pharmaceutical or cosmetic production. Access security is guaranteed by a professional user administration which places the highest demands on password control.

The protocol function of the Neutrino-GLT logs each user's activity and therefore makes workflow traceable even after many years. The data is archived on CD and is therefore tamper-proof.

Neutrino-GLT is also secured against attacks and risks from the Internet. Applications in which the Internet is needed, for example, PHWIN the remote graphic client or PHWEB the remote web browser, are protected.

The SSH system (secure shell) is deployed for PHWIN. All PHWIN data is encoded by SSH encoded algorithms. PHWEB uses https (hyper text transfer protocol secure). The data from the web server is transferred securely and encoded. Both browser and web server must be authenticated so they can communicate.



**Neutrino-GLT offers you security that you can depend upon.**



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