



# Software User Manual

Version 1.1

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## Program start.

1. Start the software by double-clicking the desktop icon or using start menu programs.
2. Log in to the software with your username and password.

If you have reinstalled the software, confirm the login with the username **Admin** and the password **Admin123#**. For security reasons, you should change the administrator password immediately.

3. The software starts with the welcome screen when you first start it.

## Safety instructions

WLX.basic is a Windows software. All data is stored on the computer. The measurement data are stored unencrypted in the database.

To secure your measurement and user data, it is even more important to protect the computer from unauthorized access.

The software uses the system time and date as well as the time zone settings and daylight-saving settings to program the loggers and generate reports. To obtain accurate measurement data, please ensure that these settings are always correct.

The user management of WLX.basic protects your measurement data from unprotected access. Don't leave your login details lying around.

You are responsible for the security of the measurement data.

## General information

### Dependencies

The following dependencies exist and must be considered for the software to function fully:



- Full rights on: C:\ProgramData\Xylem Analytics\WXL and it's subfolders.
- Full rights on: C:\Users\Public\Documents\Xylem Analytics\WXL and subfolders

### Storage space

#### Software-Update

By default, the software checks for new updates. If a new update is available, it will be downloaded after confirmation by the user and saved under C:\Users\Public\Documents. The installation will only be carried out after the complete download. Windows administrator rights are required for this.

#### Reports

Reports are saved by default at C:\Users\Public\Documents\Xylem Analytics\WXL\Outputs.

#### Measurement data and settings

In general, all settings and measurement data are stored in a database. The database is located at: C:\ProgramData\Xylem Analytics\WXL\Database

### Time data

#### GUI

The software adopts the settings from the Windows operating system and displays the date and time in the selected format.

#### Reports

The reports show date and time according to ISO 8601 standard.

For example:

2024-03-15 13:34:37+01:00

It shows the 15th of March 2024 at 13:34:37 o'clock including an offset of 01:00 to UTC for time zone and daylight-saving.

#### Projects

The measurements are saved in individual projects. The project name can, for example, be the measurement location but also the reason for the measurement or another name to delimit the respective measurements.

The project name must consist of a minimum of 5 and a maximum of 50 characters. Capital letters, numbers and special characters are permitted.

Projects are subject to access protection.

#### Project access control

Projects can be created with different rights. This setting can be used to determine who is allowed to see and/or edit the measurement data.

So, there are:

- **Public**  
In this case, all users can view the project and add measurement data and generate reports.
- **Read only**  
All users except the creator can read the project but cannot add measurement data or program loggers in the project.
- **Private**  
A private project can only be viewed and edited by the user who created it. No other user has access to this project.

#### Handling of electronic records according to FDA 21 CFR part 11

The software has security controls to prevent uncontrolled handling of the software and measurement data.

In addition to logging into the software using a username and password, various actions may also require confirmation with a username and password and the provision of a comment.

If a user repeatedly enters the wrong password, regardless of where in the software, the user and/or the system can be blocked. The decisive factor for this are the security settings, which can be found in the Settings menu.

Every change to security settings is recorded in the audit trail.

## General Usage

The software differentiates between 2 screens, the welcome screen and the main screen.

The **welcome screen** provides an easy way to program and read the loggers and generate reports about the measurement progress.

The **main screen** offers a graphical view of the measurement data, extensive analysis options, advanced programming functions and much more.

## Welcome screen

The welcome screen offers you a quick overview of the connected loggers, existing evaluations, checks whether a new version is available and displays news.

Simplified programming of the loggers and reading out the loggers is integrated into the welcome screen.

If the software is started in the welcome screen, it automatically searches for connected loggers and displays them.

## Basic structure

The top line, the **process bar**, offers quick and simple tools for measurement data acquisition and reading as well as report generation and storage.

The **information bar** displays all projects, software update information and available news.

## Process bar

### Connected Loggers

The connected loggers are displayed here.

When the program starts, the software automatically searches for connected data loggers and selects the first one directly.

The selected logger is addressed using software in the readout or program logger menus.



Clicking on this symbol will search for connected loggers again.

Loggers that are currently not connected are displayed in gray and cannot be selected.

If several loggers are connected, only one logger can be selected at a time. The logger selection determines which logger the software should work with.

## Readout Logger

A window opens in which you can select the project to save the measurement data, but also the reports to be created.

By reading out the logger, you download all measured values from the logger to the software and generate measurement reports directly. With this step, the measurement data is saved in the database.

To make the work as easy as possible, the software offers the option of reprogramming the logger directly after reading. With reprogramming the measurement data will be deleted from the logger. At



the same time, the logger time is synchronized with the computer and the logger is restarted. Programming takes place in endless mode.

#### Logger information

Information like serial number and logger type are displayed here.

#### Program Logger

In detail, the following information and settings from the logger are displayed and reprogrammed when the logger restart option is activated.

- Measurement Title
- Interval
- Start Delay
- Lower and upper Threshold per channel
- Alarm Delay and activation to display the alarm.

#### Restart logger with the following settings

By selecting the option, the logger will be restarted with the parameters displayed in the Logger programming area. **Endless measurement is always programmed** as the measurement type. Reprogramming deletes the measurement data from the logger and synchronizes the logger's time with the computer.

#### Project Location

The respective measurement tasks are saved as a project in the software. A project can contain measurements from exactly one data logger. Each individual project can always be expanded to include measured values.

The measurement data as well as the data for obtaining the measurement data, such as programming and reading out the data logger, are stored in the project.

#### Report Generation

When creating reports, the storage location for the reports and the types of reports to be created can be selected.

The following report types are available: Threshold Violation Report and Tabular Report.

The reports are generated and saved immediately after the data loggers have been read out.

The reports are generated in PDF format.

#### Program Logger

The logger that was selected in the Connected Logger's area is always programmed.

## Logger Information

Information like serial number and logger type are shown here.

## Project Storage

Here you can select the project name or create a new project.

## Program Logger

The following parameters can be set:

- **Measurement title**  
Here you can give the measurement a name using 31 characters, which will then appear on the measurement reports. The field is pre-filled with the serial number of the logger.
- **Interval**  
One interval must be chosen. The following options are available:  
1 min, 2 min, 5 min, 10 min, 15 min, 20 min, 30 min, 45 min, 60 min / 1 hr, 2 hr, 3 hr, 4 hr, 6 hr, 8hr, 12 hr, 24 hr.
- **Start Delay**  
With the start delay, the start of the measurement can be postponed by the selected period. This setting is useful, for example, if the logger first must adapt to the new ambient temperature in the actual measurement environment before the measurement.  
The following options are available:  
Start immediately, 1 min, 2 min, 5 min, 10 min, 15 min, 20 min, 30 min, 45 min, 60 min / 1 hr, 2 hr, 3 hr, 4 hr.

## Alarm settings

The thresholds for alarming can be set.

- **On / Off**  
the alarming can be switched on or off.
- **Alarm Delay**  
The alarm delay can only be set if alarming has been switched on. No alarm delay or a multiple of the measurement interval can be set as alarm delay. The selection of multiples of the measurement interval is limited to a maximum of 255 times. The following choices are available if they meet the criteria:  
The following selection options are available:  
No delay, 1 min, 2 min, 5 min, 10 min, 15 min, 20 min, 30 min, 45 min, 60 min / 1 hr, 2 hr, 3 hr, 4 hr, 6 hr, 8 hr, 12 hr, 24 hr.

- Lower Threshold  
The lower limit value can be freely adjusted for each measuring channel. However, it must be within the measurement range and lower or equal to the upper limit.
- Upper Threshold  
The lower limit value can be freely adjusted for each measuring channel. However, it must be within the measurement range and higher or equal to the upper limit.

By clicking on programming, the logger is programmed, and the window is closed. When you program the data logger, any existing measurement data on the logger will be deleted and the date and time setting will be synchronized with that of the computer.

### Create Project

With this function you create a new project and load the measurement data from the selected logger into the project directly after creating the project.

When creating it, you must enter the name of the project and select the access type.

The project name is pre-assigned with PROJECT and the current local time key.

The default access type is Public.

### Project Management

New projects can be created and existing ones opened in the project management. By opening the project, the software switches to the main screen and graphically displays the measurement data available in the project, generates statistics and much more.

The most recently edited projects are displayed in the list and can be opened by clicking on the project name. A project always opens in the main screen.

If you cannot find the project in the short list of recently edited projects, click Open Project. All existing projects are displayed in the window that now opens. You can switch the view from tile to list form and find the desired project using the search function or by scrolling. In the list view, the projects can be sorted by project name or creator by clicking on the column title.

To open the project, select it with a mouse click and press the open button.

### Software Update

The software checks in the background whether there is a newer version and displays the result here.

If your version is current, the field remains empty.

If a new version was found, version information is displayed. You decide whether the version should be installed. The software does not update itself.



Please note that you need Windows administrator rights to install.

This feature can be turned off in the general settings.

## News

Here you can find out news and interesting facts about us and our products. The software establishes a connection to our news service on the Internet. If no connection is established, no news can be displayed.

## Main screen

In the main screen we offer a variety of options for measurement data analysis, report creation and much more.

The main screen is divided into the actual menu, the Visualization Settings, the Logger Panel, the Graphical View and the Measurements and Channel View.

## Menu

The menu is divided into Home, General, Visualization, Reporting, Tools and Windows.

## Home

The Home menu contains the most frequently used functions. You can customize the Start menu in Settings and add or remove features.

The following functions are included in the delivery state:

- Open  
to open a project
- Thresholds  
to enable or disable the Thresholds in the curve board.
- Readout  
to readout the logger and generate reports.
- Program  
to program the logger
- Settings  
to change system settings
- Help  
to open this document.

## General

The General menu contains the following functions:

- Open  
to open a project
- Create Project  
to create a new project
- Readout  
to readout the logger and generate reports.
- Program  
to program the logger
- Import  
to import measurement data.
- Export  
to export measurement data.
- Change Password  
to change your own password
- Manage Users
- Manage Roles
- System Audit Trail
- Project Audit Trail
- Settings
- Help

## Visualization

The Visualization contains the following functions:

- Switching between Select and Cursor Mode  
Selection mode is the standard setting in which the graphical view can be zoomed in and the measurement curve can be selected.  
In cursor mode, the measured values can be selected in the graphic and displayed in the visualization settings, cursors.
- Best View  
the software displays all measured values in the best possible way.  
Deselecting the threshold display can change the best view if the threshold values are outside the measured values.  
With the best view, all measured values are always displayed in the best possible way.
- Thresholds  
This is used to display or not display the threshold values.
- HI/LO states  
If the logger detected HI or LO states during the measurement, these will be marked and labeled

in the graphical view. This marking can be enabled or disabled.  
HI / LO states are enabled by default first

## Reporting

Different reports can be created in the report menu.

The Reporting menu contains the following functions:

- Threshold Violations
- Remark
- Compact
- Tabular
- System Audit Trail
- Projekt Audit Trail

## Tools

The Tools menu contains the following functions:

- Check for updates
- About software

## Windows

The Windows menu contains functions to switch windows off or on.

- Automatic Panel Arrangement
- View Panels

## Logger Panel

All loggers are displayed in the logger bar.

### Hide disconnected loggers

By activating the Hide disconnected loggers' option, the loggers that were not connected at the time of the last scan are hidden and only the connected loggers are displayed.

### Search for Logger

The loggers in the list can be quickly found using the search function. The search is based on device type and serial number.

### Scan

By clicking on the Scan button, connected loggers are searched and the list of loggers is updated.

## Logger List

If the logger was found at the time of the last scan, it will be displayed in black and at the top of the list. If the logger is known but not currently connected, it will be displayed in gray.

## Read Data

By pressing the Read Data button the selected logger is read out. The measurement data is saved in the open project.

Execution of this function may be blocked if the logger is not the first logger in the project.

## Restart

Opens the Program Wizard

## Graphical View

The graphical view shows the measurement data over time.

When opening a project or reading new measurement data into the current project, the data is displayed in the best view over the entire period and measuring range. Of course, the view can now be zoomed to analyze different parts in more detail.

## Zoom Function

You can zoom into the graphic using the left mouse button and dragging.

## Context Menu

By clicking the right mouse button within the graphical view, a menu opens with the following selection options:

- Selection Mode
- Cursor Mode
- Best View

## Visualization Settings

Using visualization settings, various functions in the graphical view can be changed or data from the graphical view can be displayed.

## Cursor

The Cursor view is only active in conjunction with the graphical view and the cursor mode is activated in the Visualization menu.

The measured values at the selected time and at which the cursor is currently in the graphical view are displayed.

You can decide whether only the measured values should be displayed when the cursor has hit the **exact** point in time or whether the analysis should be **tolerant** and display the closest measured value.

#### Axis

In the Axes you can set the labeling of the axes, the position and the scaling of the axis.

#### Grid

Here you can switch auxiliary lines on or off in the graphical view.

#### Measurements and Channel View

This view contains a lot of measurement information and statistics. The information to be displayed can be selected in the settings under Channel Columns. The possible statistical data can be selected and deselected here. You can also specify the order of the display here.

#### Deselect ad

Each measuring channel can be deselected separately in the setting. If you deselect the channel, it will no longer be displayed in the graphical display.

#### Channel Name

A name can be entered into the software for each measuring channel. The name then appears in various reports.

The name is preset with the measurand, for example Temperature.

#### Display Color

It is also possible to change the color of the displayed channel. To do this, simply click on the color box.

## Functions Detailed

#### Open

An existing project can be opened using open.

#### Create Project

Here you can create a new project.

#### Readout

With read the logger currently selected in the logger table is read out. The program automatically creates the desired reports and stores them in the selected folder.

Optionally, the logger can be programmed again in endless mode immediately after reading.

### Program

The logger selected in the logger panel can be programmed here. An assistant opens in which various setting options are available.

The following settings are available:

- Info
- Measurement
- Display Settings
- Alarm
- Descriptions

### Info

General information about the data logger are shown here.

### Measurement

There are different types of measurements available depending on the logger type.

#### *Start / Stop Measurement*

When programming the logger with the start/stop measurement type, the software checks whether the logger's memory is sufficient for the measurement. The software calculates whole days for this determination.

The start time may be a maximum of 30 days in the future.

For this type of measurement, it is mandatory that the start time, stop time and interval fields are filled out.

It is checked whether the stop time can be reached with the selected interval and the selected start time.

#### *Continuous Measurement Mode*

The interval is required for this type of measurement. A start delay can also be entered, but this is not *necessary*.

With continuous measurement, the logger is started once and overwrites the oldest measured value as soon as the memory is full.

#### *Start Immediately Until Memory Is Full*

The interval is required for this type of measurement. A start delay can also be entered, but this is not necessary.

#### *Measure at Specified Start Time*

The interval is required for this type of measurement. A start delay can also be entered, but this is not necessary.

#### *Do not measure / Start upon button pressed*

The interval is required for this type of measurement. A start delay can also be entered, but this is not necessary.

#### Display

Depending on the logger type, the logger display can be switched on or off and the display measurand for temperature can be chosen here.

#### Alarm

The settings for the alarm and the associated limit values can be made here.

#### *General Alarm settings*

The alarm function can be turned on or off. An alarm delay can be set. The alarm delay must be a multiple of the measurement cycle and a maximum of 255 times. The software offers valid options for selection based on the selected measuring cycle.

#### *Channel settings*

The threshold values can be set per measurement channel. Setting the threshold values is also possible without activating the alarm

#### Descriptions

Here you can save information on the logger so that it also appears on the reports later.

The following fields are available, depending on the logger type:

- Measurement Information
- Measurement Title
- Measurement Explanation

#### Import

With Import, measurement data files can be imported into W LX .basic Software. To do this, select a project name and the measurement data file to be imported.

Measurement data files in \*.edf2 format and \*.w lx can be imported.

Please note that importing measurement data from multiple loggers into a project may be blocked.

## Export

With Export the measurement data can be exported to CSV, Excel (XLSX) or into W LX .basic Software format.

You can select the folder in which the file to be exported should be saved. Please note that you must have sufficient rights in the folder.

Select the data format.

## CSV

The content of the csv file is always in English language, regardless of which report language is set in the software. The data are converted in UTF-8.

The file format looks like this:

Column Description	Explanation	Example
Serial No.	Serial number of the logger	62524685
Channel number	Channel number	1
Channel Name	channel name	Temperature
Measurement Value	Measurement value	20.0
Unit	Unit	°C
Channel Flag	Validity of the measured value It should always say "Valid", but in exceptional cases it will say "LO" or "HI", because the logger did not deliver a valid measurement.	Valid
Timestamp (UTC)	Timestamp of the measurement based on UTC.	2024-10-15T09:25:51.000

If the logger has multiple channels, the measurements are displayed in separate lines. In the file, the measurements are sorted in ascending order by timestamp and channel number.

## XLSX (Excel)

The content of the csv file is always in English language, regardless of which report language is set in the software.

The file includes a header with the following information:

Description	Explanation	Example (Column B)	Example (Column C)
Creation date:	Date of creation in local time	14.01.2025	09:06:27

Time Offset to UTC:	Offset to UTC, at the time the report creation		01:00
Creation with:	Created with:	W LX	1.0
Serial Number:	Serial number		62319316
Channel and Unit:	Channel and Unit:		Channel: 1 [%rH]
Channel Name	Channel Name		Humidity

The header information is now followed by the measurement data sorted in ascending order by measurement time.

Column Description	Explanation	Example
Local Time	Local time when the measurement took place	15.10.2024 11:25:51
Time Offset to UTC	Offset to UTC at this specific time, where the measurement took place	02:00
%rH	%rH, this column is only shown if it is a humidity logger	48.6
°C	Unit of the temperature channel	21,8
Channel 1 Flag	Validity of the measured value of channel 1	Valid
Channel 2 Flag	Validity of the measured value of channel 2	Valid

The validity of the measured values should always say “Valid”, but in exceptional cases it will say “LO” or “HI”, because the logger did not deliver a valid measurement.

## W LX

The data is exported in the software's own format. This means the measurement data can be exchanged.

### How to create an Export

After you click on the Export menu item, a window opens in which you must make the following entries:

- Select the folder where the file should be saved. Please note that you must have write permissions in the folder.
- Select the export format.
- Enter a file name.

- Now select the decimal separator for the correct display of the measured values, as well as the CSV column separator for correct formatting. Please make sure that you select different characters in both settings.

The settings are only offered for the CSV format.

### Change password.

With the password change you can change your own password. To do this, follow the wizard and enter your current password followed by the new password. The password repetition is for security purposes to avoid typing errors.

The password must consist of at least one number, one small and one capital letter and one special character from the following selection, `~!@#$%^*()_+{}<>&=:|'";', ./\[]`, and must have a length of at least 5 characters and a maximum of 30 characters.

Depending on the security settings, additional password requirements may apply.

### Manage Users

With the user management, different users can be created, each of which must be assigned to exactly one role. The role defines which permissions the user receives.

User management is used for security and tracking. By assigning different rights, tasks can be distributed. At the same time, you can later track which user carried out which action in the audit trail.

A user who is not assigned a role is considered an invalid, unfinished user who has no authorization and therefore cannot log in to the software.

Users can be blocked but not deleted.

#### Add User

To create a user, the following entries are required:

##### *Username*

The username is the name with which the user can log in to the software. It is also used to sign the various actions if the software has been set up this way.

##### *Full Name*

The full name is for better readability and is used in reports.

##### *Password*

The password serves to protect the software from unauthorized use.



The password must consist of at least one number, one small and one capital letter and one special character from the following selection, `~!@#%&^*()_+{}<>&=:|'""?';', ./\[]`, and must have a length of at least 5 characters and a maximum of 50 characters.

Depending on the security settings, additional password requirements may apply.

When assigning the password, it must be repeated in the same spelling to confirm the entry.

*User must change password during next login*

This causes the software to force the password change the next time the user logs in.

*Account is locked*

This means that the customer is no longer able to log in or make any signatures within the software.

*Permission to reset Password*

Activate this option to set a new password to the chosen user.

To validate if you can proceed this action, you need to type your password, who is the password of the user who is currently logged in, in.

You need to enter the new password of the chosen user and repeat it before you click on Save.

## Manage Roles

In role management, the various authorizations in the software are assigned to roles. These roles are then used to be divided among different users.

A role can contain one or more permissions.

A role can be assigned to one or more users in Manage Users.

### Permissions

The following permissions are available.

#### *Program Logger*

With this authorization you can program a logger.

#### *Read Logger*

With this authorization you can read a logger.

#### *Manage General Settings*

With this authorization you can change settings in section General Settings.

#### *Use Digital Signature*

With this authorization you can sign with electronic signature.



#### *Manage Security Settings*

With this authorization you can change security settings in settings.

#### *User and Role Management*

With this authorization you can enter user management and role management and make changes.

#### *View Audit Trail*

With this authorization you can show the audit trail.

#### *System Audit Trail*

All activities that hit the system are recorded in the system audit trail. These include starting the software, user creation, role creation, changes to users or roles, project creation, user registration, software start and termination of the software.

This log can be filtered according to various aspects and converted into a report.

The system audit trail cannot turn off.

The following actions are logged.

#### *Software-Update*

A new installation or software update is displayed as "Software has been updated" in the system audit trail. Additional information includes the version from which the update was made. During a new installation, the "previous" version is displayed as version 0.0.0.

#### *Add Role*

The creation of a new user role is recorded as "Add Role." The role name is noted in the subsequent description.

#### *Change Role*

Every role change is recorded as a "Change Role" in the audit trail. The description includes the role name, the existing and new rights, and all affected users.

#### *Add User*

The "Add User" entry describes the creation of a new user. The username, full name, and selected options are entered. The user is locked out or the user must change their password upon next login.

#### *Update User Settings*

The "Update User" entry records the changes to the user.

#### *User has changed his password*

The "Change Password" entry with the respective user's note indicates that the user has changed his password.



Administrator password has been reset

The "Reset Password" entry indicates that the password for the user called "Admin" has been reset to grant the administrator access to the software again.

Application has been started

The software has been started and is recorded as "Application is started" in the system audit trail.

User has logged in successfully

A successful user login is recorded as "User >Name< logged in" in the system audit trail.

User has an incorrect login attempt

If a known user attempts to log in with an incorrect password, the entry is "Incorrect Login" with the information "User >Name< >Number< incorrect attempt".

Incorrect login attempt

If an unknown user attempts to log in, this results in an "Incorrect User" entry with the username used.

Application has been locked

If the system has been locked due to security settings and the number of login attempts exceeded, this will be noted in the audit trail as "Lock System" with the comment "System has been locked for 15 minutes."

The application has been reactivated.

The "Unlock System" entry only appears after a user successfully logs in after the lockout period has expired.

Application has been closed

If the application is closed, this is noted as "Application going to Close."

A new project has been created.

The entry in the system audit trail is "Create Project." The "User," the project version, and the selected access type are also logged.

Changing the General Settings

Changing the general settings results in the entry "Changed General Settings." The new settings are listed below.

Data Export

If a data export is performed, it is recorded in the system audit trail as "Export Project" with the project, file name, and format type.



### Data Import

When data is imported, the entry "Import Project" appears, listing the serial number, project name, and file used for import.

### Project Audit Trail

All processes in the project are logged in the project audit trail. This log can be filtered according to various aspects and converted into a report.

The project audit trail cannot turn off.

The following actions are logged:

#### Creating a Project

Create Project creates a new project. In addition to the project name, the user, version, and access rights are also specified.

#### Logger readout

The "Readout Logger" entry indicates which logger was triggered. If reports were generated directly during the readout, these are also listed.

#### Logger has been programmed

When a logger is programmed, the "Logger Programmed" entry is created. In addition to this entry, all programming parameters are also recorded in the audit trail.

#### Remark created

If a comment has been entered in a project, it is logged under "Add Remark."

#### Remark changed

If a remark is changed in the project, this is logged under "Change Remark."

### Data Export

If a data export is performed, it is recorded in the audit trail as "Export Project" with the project, file name, and format type.

### Settings

There are a variety of presets for the software in the settings. Some settings require special authorization, and the changes are logged in the system audit trail.

These are global settings that apply to all users.

## General

Special authorization is required to change general settings. All changes are recorded in the system audit trail.

### *Software Update*

The search for software updates can be switched off here.

### *GUI Language*

The language of the software can be set here. German and English are available to choose from. After the change the software will restart.

### *Show welcome page*

Here you can specify whether the software starts in the welcome screen or in the main screen.

### *Re enable welcome page*

Messages that may no longer be displayed can be reset here so that they are displayed again.

## Reporting

The report settings are freely accessible and can be customized by each user. Changes in this area always take effect immediately.

### *Report language*

Hier kann die Sprache des Berichts eingestellt werden. Es stehen deutsch und englisch zur Auswahl.

### *User information*

Address details for the company can be entered in the user information. These will later be displayed in the report header.

### *Logo*

A logo can be uploaded here, which should later be displayed on the reports. The currently selected logo is displayed and can be replaced with a new logo by clicking Select. By clicking on Delete, the logo can be deleted.

The logo must be available in one of the following image formats:

- \*.bmp
- \*.jpg
- \*.jpeg
- \*.png

## Visualization

This area is freely accessible and can be customized by any user.

Changes in this area always take effect immediately.

You can set the color preselection for the different measurement variables here. Currently these are temperature and relative humidity.

### Units

This area is freely accessible and can be customized by any user.

Changes in this area always take effect immediately.

Here you can view the units of the metrics, how they should be displayed and how they should appear in the report.

The following temperature selection options are currently available:

- Celsius
- Fahrenheit
- Kelvin

### Security Settings

Special permission is required to change security settings. All changes are recorded in the system audit trail.

#### *Password*

Password specifications can be made here.

If a password does not meet these criteria by changing the criteria, the user will automatically be asked to change the password the next time they log in.

#### *Password length*

Enter the maximum password length.

#### *Password expires*

Here you can set whether the passwords should expire and after how long in days this should happen. You can choose between 1 and 365 days.

#### *Application is locked*

You can set whether and for how long the software should be blocked. Values between 1 and 60 minutes are possible.

This setting can be seen in combination in the later setting Lock system after number of incorrect login attempts. But it is also used by Admin.

## Maximum Number of Login Attempts

The maximum number of login attempts can be entered here. This is to protect the system from attacks.

## Actions After Maximum Number of Failed Login Attempts

You have the following options to choose from, one of which must be taken.

- System lock  
In this case, the system will be locked for the entered software lockout period so that no user can log in during the lockout period.
- User lockout  
The user is blocked and can be unlocked again by another user who has user management rights.  
If the administrator enters his password incorrectly several times, the system will be locked for the software lockout period entered.
- Warning email  
An email will be sent.

You can only select the warning email once you have entered the email settings and there is at least one recipient.

**Please note that proper functionality requires a permanent internet connection, an email server that can be always reached, correct access data and correct recipient email addresses.**

## E-Mail

Here you can make all the settings to send warning emails.

You can change the email settings by clicking Edit email server configuration.

To do this, enter the correct data. If you don't have this, your IT department will certainly be happy to help you.

## Authentication method

We support the following authentication methods:

- CRAM-MD5 (Challenge-Response Authentication Mechanism, Message Digest 5)
- Auth login  
Username and password will be encrypted transferred to the mail server.
- Login in plain text

Please note: The method “plain text” allows login using plain-text credentials for authentication. It should be used strictly for troubleshooting purposes only and must not be used in production environments or as a regular practice

### *Signature*

Here you can specify which action you would like to capture zero, one or two signatures for. Additionally, they can force a comment if at least one signature has been selected for the action in question.

### *Channel columns*

This area is freely accessible and can be customized by any user. Changes in this area always take effect immediately.

Here you can choose which of the available statistics and information you want to have displayed in the measured value display.

You can simply deselect the functions by deselecting the option box and change the arrangement by dragging the area.

### *Home menu*

This area is freely accessible and can be customized by any user. Changes in this area always take effect immediately.

The start menu can be freely designed. Here you have the opportunity to add or remove any available function from the stat menu.

Placeholders are also available for a better overview.

Click on edit to compose the menu according to your ideas using drag and drop.

### *Help*

Clicking help opens this document in the computer’s standard PDF viewer.

### *Select / Cursor*

With this function you choose whether the cursor works in selection mode or in cursor mode.

#### *Selection mode*

In selection mode you can zoom in the graphical view and select the curve.

#### *Cursor mode*

In cursor mode, the measured values are displayed at the time at which the cursor is currently located.

There is a distinction between „Exact“ and „Tolerant“.

#### *Exact*

If exact is set, only the measurement values that have a measurement value at exactly the selected time are displayed.

#### *Tolerant*

If tolerant was selected, the measured values at the selected time or the previous measured value are displayed. If the measured value was not determined exactly at that time, it is marked with an exclamation mark.

#### *Best view*

By clicking on the best view button, the graphical view is displayed optimally.

The measurement curve is displayed in its entirety and with all values. If the limit values have been activated, the limit values will also be displayed in the curve board.

#### *Thresholds*

When you activate the limit values, the limit values are displayed in the curve board.

#### *HI/LO states*

If measuring range overflows occurred during the measurement, these will be displayed as HI or LO. These can be removed from the curve board by deactivating the HI/LO status. These can be displayed again in the same way.

#### *Threshold Violations*

Querying whether the threshold value has been exceeded offers a simple and quick way to see whether and for how long the limit values have been exceeded or fallen below.

#### *Remark*

A comment can be entered into the project. This is then printed on the first page of the compact report. The comment explains the measurement and may be a maximum of one page long.

#### *Compact*

The compact report shows the complete measurement on one page including some statistics and a graphical view.

If a comment has been entered into the project, the compact report is expanded by a page on which the comment is displayed.

#### *Tabular*

The tabular report displays all measured values in a table. A new page is created for each day.

Please note that this report may be very long.



### [Check for Updates](#)

By clicking on this button, you can check whether there is an update to the software and download and install it.

Please note that Windows administrator rights are required to install the software.

### [About software](#)

Here you can find information about the software, such as the version and which components are used in this software.

### [Automatic Panel Arrangement](#)

By clicking on this button, all 4 panels will be automatically arranged in the software.

### [View panels](#)

Using this button, individual panels can be closed and re-opened.

## Troubleshooting

Here you will find useful tips on how to troubleshoot errors.

### [Forgot password](#)

You have forgotten your password and need help to be able to work with the software again and access your measurement data.

Contact the person or group of people in your company who created the users in the software and assigned the rights.

### [Forgot administrator password](#)

If you have forgotten your administrator password, please follow the steps below to reset the password.

Please ensure that the administrator password is always kept safe. Please never use the administrator password for your standard work processes.

**Please note that we are not responsible for your data security. If we help you create a new administrator password, we do so in the good faith that you are acting lawfully.**

When logging in, enter the username "admin". Resetting the password is only possible for this username.



Above the login button you can click on the text “Click here to reset your password”. A window called Recovery Key will open. Copy the recovery key into an email and send it to the email address provided.

As the subject of the email, please write “Recovery Key for Software W LX”.

In response to your email you will receive a file as an activation key. Save this file to your computer and now click on the “Password recovery file” field and select the file in the storage location you previously selected and then click open.