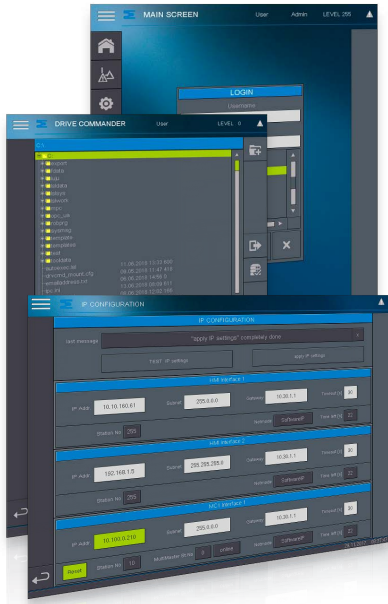


StartUp

The StartUp package provides all basic functions required for a fast and efficient project start. In addition to the SIGMATEK StandardTemplate, which already contains alarm management as well as operating elements for basic settings such as language conversion, the package also has numerous Add-Ons. These can be easily added to the template or existing applications. In addition, the HGW template is included – which enables a simple project start with the wireless HMI operating panels



FEATURES

- Alarm Management
- Basic settings such as screen saver, language conversion, etc.
- User manager incl. import/export users
- TCP/IP interface setting
- Recipe management
- File management
- Wireless functions such as logging into WLAN network, network diagnostics etc.
- and much more

SOFTWARE VERSIONS

Design environment	LASAL CLASS 2, LASAL SCREEN
Operating system	RTOS, Salamander

SYSTEM REQUIREMENTS

Performance Index



Memory Requirements

Depending on the combination of individual components, see following pages for details.

COMPONENTS

Templates

- Standard
- HGW

Add-Ons

- AccessControl
- Diagnosis
- DriveCommander
- EventJournal
- IPConfiguration
- RecipeHandling

Application Demo

- Shows the use of package classes on an example

Documentation

- All class documentation, as well as user and program manual where required

Standard Template

The Standard Template is used as the basis for fast project development, as well as for the integration of additional Add-Ons. It also contains an alarm list, in which all terminal alarms & the process control are logged.

In the template, general settings are available such as language conversion, settings for date & time, the time for activating the screen saver, as well as screen cleaning time.

The template was designed as a two-CPU solution. This template contains the program elements for the LASAL CLASS projects, as well as the LASAL SCREEN projects for multiple resolutions.



FEATURES

- Alarm management with buffering all alarms from the terminal and process control are logged with a time stamp
- General settings such as time, date and language
- Screen cleaning, calibration

SOFTWARE VERSIONS

Design environment	LASAL CLASS 2, LASAL SCREEN, LASAL Machine Manager
Operating system	RTOS, Salamander

SYSTEM REQUIREMENTS

Performance Index



Visualization Memory Requirements

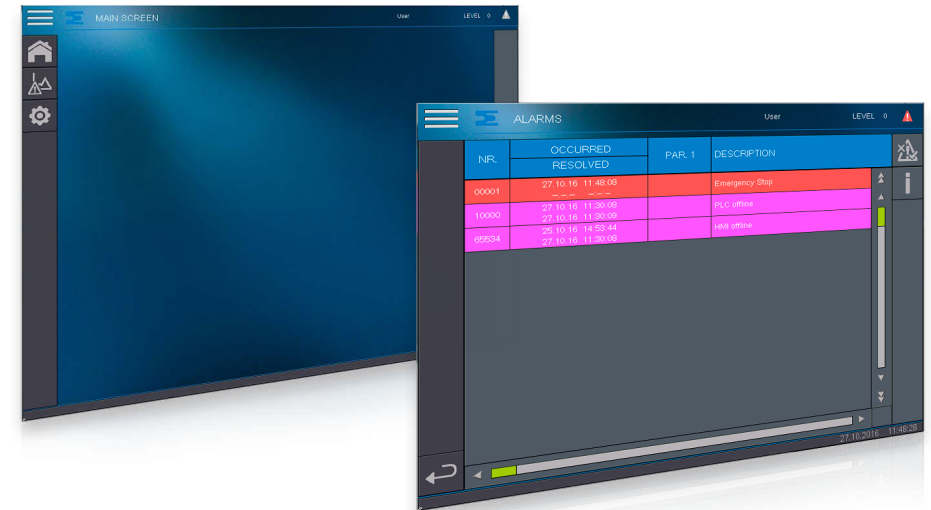
Code Size [KB]	3347
User Heap [KB]	1801
LSE Project Size [KB]	8750
SRAM [bytes]	104

Process Control Memory Requirements

Code Size [KB]	919
User Heap [KB]	6060
SRAM [bytes]	76

AVAILABLE RESOLUTIONS [px]

800x480, 800x600, 800x1280, 1024x768, 1280x800, 1366x768



HGW Template



The template can be used as a basis for fast project development with a WLAN handheld operating device. The template contains standard template functions and setting options for the handheld operating panel, WLAN, etc. Starting from a project with a template HGW, further SIGMATEK Add-Ons can be installed.

- Panel (HGW): LASAL CLASS 2 + LSE Project for visualization
- Basis Station (BWH): LASAL CLASS 2 Project
- MachineControl: LASAL CLASS 2 project for machine process and LASAL SAFETYDesigner project (optional)

FEATURES

- Configuring the IP settings
- Configuring the network settings of the base station
- Connecting with available WLAN networks
- Guided safety log-in to a machine (applies only to HGWs with Safety components)
- WLAN Analyzer for network analysis
- Battery status diagnostics
- Diagnosis of the HGWs safe or non-safe I/Os

SOFTWARE VERSIONS

Design environment	LASAL CLASS 2, LASAL SCREEN, LASAL Machine Manager
Operating system	RTOS, Salamander

SYSTEM REQUIREMENTS

Performance Index

A B C D E

Visualization Memory Requirements

Code Size [KB]	4169
User Heap [KB]	11260
LSE Project Size [KB]	10876
SRAM [bytes]	156

Process Control Memory Requirements

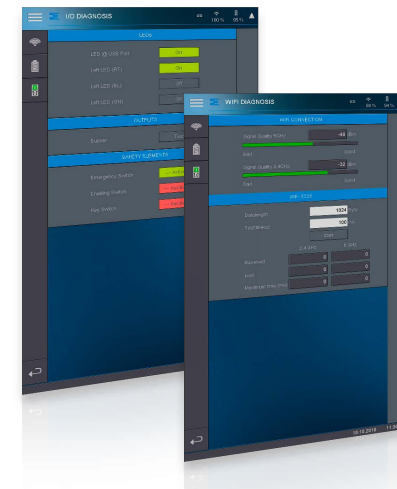
Code Size [KB]	1840
User Heap [KB]	7630
SRAM [bytes]	76

Base Station Memory Requirements

Code Size [KB]	1492
User Heap [KB]	1278
SRAM [bytes]	72

AVAILABLE RESOLUTIONS [px]

800x1280, 1280x800



AccessControl



The AccessControl Add-On provides extensive user management, which enables the creation, editing or deletion of multiple users. Users can also be assigned different rights via levels. In addition, all user data can be exported to a USB stick or a USB stick can be imported to, for example, load into a different CPU.

Users can either log in to the terminal directly using a password or with a USB stick. This Add-On contains the program elements for the LASAL CLASS project, as well as the LASAL SCREEN projects for multiple resolutions.

FEATURES

- User login, change and logout
- Level-based access rights
- Creating, editing and deleting users
- Login with USB Stick
- Functions for export & import

SOFTWARE VERSIONS

Design environment	LASAL CLASS 2, LASAL SCREEN, LASAL Machine Manager
Operating system	RTOS, Salamander

SYSTEM REQUIREMENTS

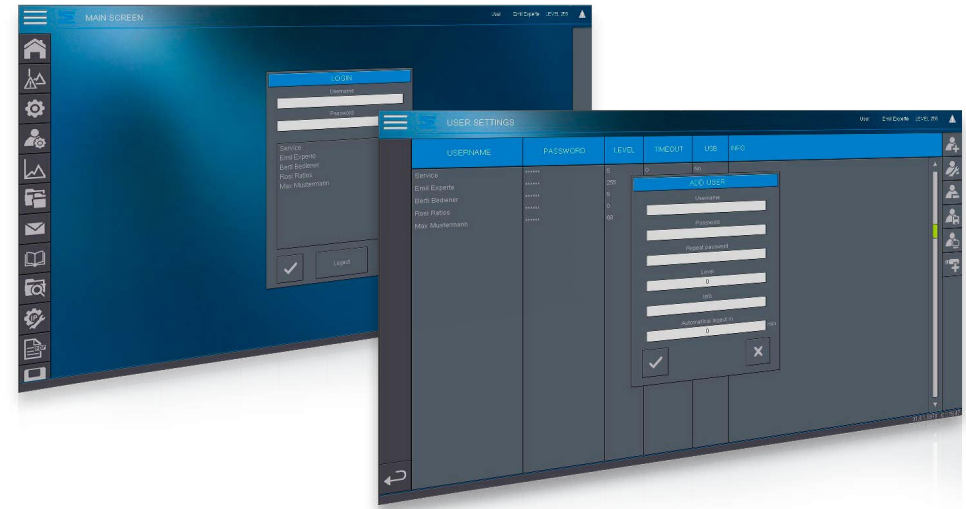
Performance Index A > B > C > D > E

Visualization Memory Requirements

Code Size [KB]	75
User Heap [KB]	19
LSE Project Size [KB]	18
SRAM [bytes]	0

AVAILABLE RESOLUTIONS [px]

800x480, 800x600, 800x1280, 1024x768, 1280x800, 1366x768



Diagnosis



The Diagnosis Add-On is used to diagnose hard and software, as well as provide various information such as name of the current project, the IP address or serial number of the terminal or process control. In addition, the CPU can be rebooted with a button in the Diagnosis Screen.

The diagnostic details can be exported to a USB stick or stored on the local PLC drive C. After export, the data are available in a folder structure. The Add-On was designed as a two-CPU solution and contains the program elements for the LASAL CLASS project, as well as the LASAL SCREEN projects for multiple resolutions.

FEATURES

- CPU and network info from the terminal and process control
- Visualization diagnostics
- Robot function
- Export function

SOFTWARE VERSIONS

Design environment	LASAL CLASS 2, LASAL SCREEN, LASAL Machine Manager
Operating system	RTOS, Salamander

SYSTEM REQUIREMENTS

Performance Index



Visualization Memory Requirements

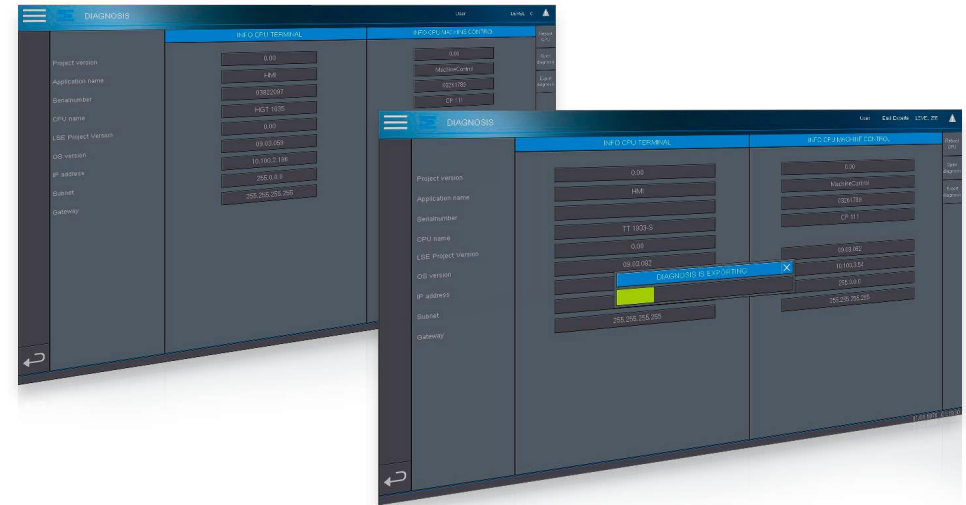
Code Size [KB]	154
User Heap [KB]	619
LSE Project Size [KB]	37
SRAM [bytes]	0

Process Control Memory Requirements

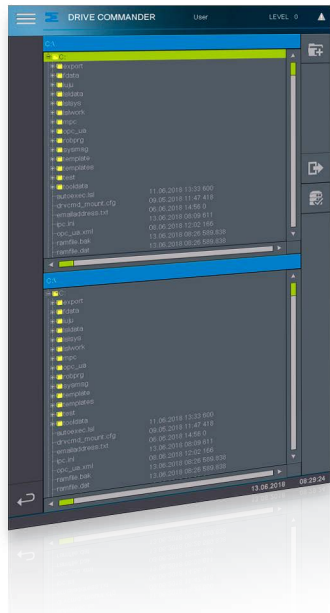
Code Size [KB]	74
User Heap [KB]	110
SRAM [bytes]	4

AVAILABLE RESOLUTIONS [px]

800x480, 800x600, 800x1280, 1024x768, 1280x800, 1366x768



DriveCommander



The DriveCommander Add-On is a duplicate file browser for the CPU file system, in which folders can be stored, elements renamed, copied and deleted. The DriveCommander also provides optional rights management to prevent write access to previously defined files and directories. These rights are set in a separate configuration file.

Various mount functions, such as network and USB drives are also possible that can be accessed from the terminal. The Add-On contains the program elements for the LASAL CLASS project, as well as the LASAL SCREEN projects for multiple resolutions.

FEATURES

- Duplicate file browser
- Create folders, rename files, copy and delete elements
- Simple rights management
- Manage network releases
- Connect and disconnect network releases (mount functions)

SOFTWARE VERSIONS

Design environment	LASAL CLASS 2, LASAL SCREEN, LASAL Machine Manager
Operating system	RTOS, Salamander (mount functions with Salamander only)

SYSTEM REQUIREMENTS

Performance Index

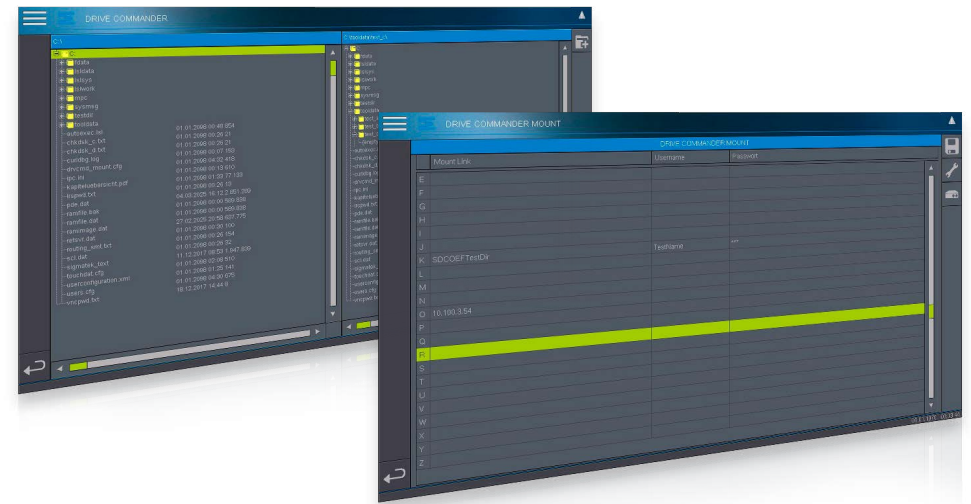
A B C D E

Visualization Memory Requirements

Code Size [KB]	104
User Heap [KB]	981
LSE Project Size [KB]	40
SRAM [bytes]	140

AVAILABLE RESOLUTIONS [px]

800x480, 800x600, 800x1280, 1024x768, 1280x800, 1366x768



EventJournal



The EventJournal Add-On is used to display and log events, messages as well as triggered alarms and store actions on the machine. The protocol contains for example, system messages, user events, value changes and operating mode changes (all incl. timestamp).

Events can also be created, which consist of user-defined text. The EventJournal provides the option to filter by event or hide events to increase clarity.

The event list can be exported to a USB stick or stored on the local PLC drive C. This Add-On contains the program elements for the LASAL CLASS project, as well as the LASAL SCREEN projects for multiple resolutions.

FEATURES

- Recording system messages
- Recording user events
- Recording value changes
- Recording of operating mode changes
- Recording alarms
- Recording user messages
- All entries are recorded with time-stamp and additional information
- Export functions
- Filter functions

SOFTWARE VERSIONS

Design environment	LASAL CLASS 2, LASAL SCREEN, LASAL Machine Manager
Operating system	RTOS, Salamander

SYSTEM REQUIREMENTS

Performance Index

A B C D E

Visualization Memory Requirements

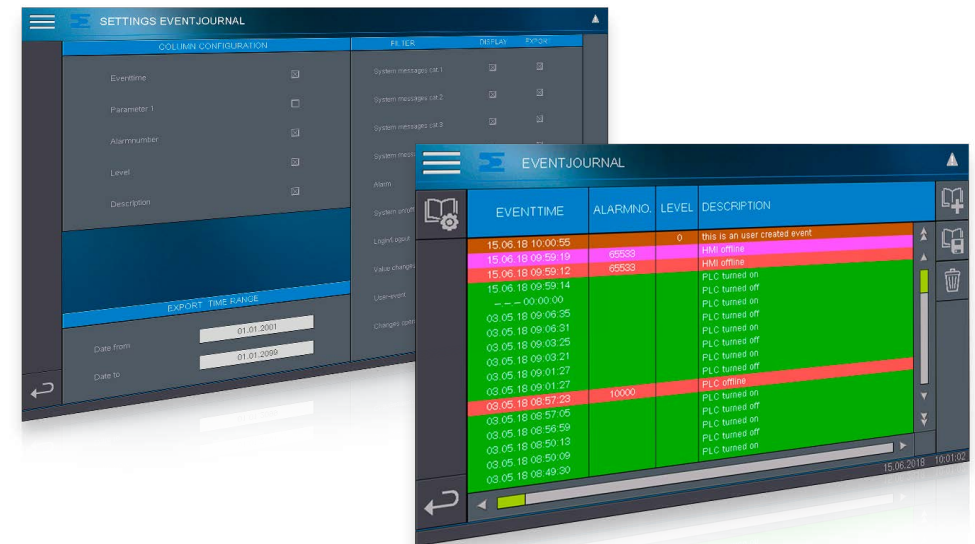
Code Size [KB]	76
User Heap [KB]	378
LSE Project Size [KB]	31
SRAM [bytes]	4

Process Control Memory Requirements

Code Size [KB]	7
User Heap [KB]	0.3
SRAM [bytes]	0

AVAILABLE RESOLUTIONS [px]

800x480, 800x600, 800x1280, 1024x768, 1280x800, 1366x768



IPConfiguration

The IPConfiguration Add-On provides the option to make the IP setting for SIGMATEK visualizations and controls zero-voltage proof via software. This allows a control to connect to a new/third-party network without programming. In addition, it is also possible to check all defined IP settings, whose result is then displayed as a message.

The Add-On also provides the function to restore IP settings to delivery condition via USB stick. This Add-On contains the program elements for the LASAL CLASS project, as well as the LASAL SCREEN projects for multiple resolutions.



FEATURES

- Interface objects for all settings and displays
- Simple expandability
- Test functions for testing changes
- Fully automatic process for changing settings

SOFTWARE VERSIONS

Design environment	LASAL CLASS 2, LASAL SCREEN, LASAL Remote Manager
Operating system	RTOS, Salamander

SYSTEM REQUIREMENTS

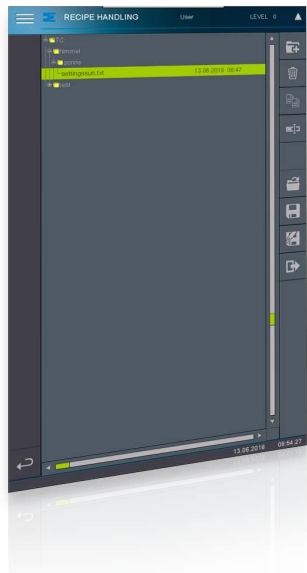
Performance Index	A > B > C > D > E				
Visualization Memory Requirements					
Code Size [KB]	63				
User Heap [KB]	47				
LSE Project Size [KB]	28				
SRAM [bytes]	156				
Process Control Memory Requirements					
Code Size [KB]	45				
User Heap [KB]	0				
SRAM [bytes]	36				

AVAILABLE RESOLUTIONS [px]

800x480, 800x600, 800x1280, 1024x768, 1280x800, 1366x768



RecipeHandling



The RecipeHandling Add-On enables the display and file handling in the recipe management section, similar to the file explorer with additional data set functions.

Via the file explorer, data sets can be generated, loaded, deleted, renamed, etc.

Data sets can also be grouped, whereby one or more group can be saved or loaded. For example, values from different system sections can be managed as separate recipes.

This Add-On contains the program elements for the LASAL CLASS project, as well as the LASAL SCREEN projects for multiple resolutions.

FEATURES

- Browser limited to the recipe management section (Tool catalog)
- Create, rename, copy and delete folders
- Rename, copy and delete files
- Load or save data sets
- Integration with SIGMATEK EventJournal prepared

SOFTWARE VERSIONS

Design environment	LASAL CLASS 2, LASAL SCREEN, LASAL Machine Manager
Operating system	RTOS, Salamander

SYSTEM REQUIREMENTS

Performance Index

A > B > C > D > E

Visualization Memory Requirements

Code Size [KB]	58
User Heap [KB]	20
LSE Project Size [KB]	26
SRAM [bytes]	4

AVAILABLE RESOLUTIONS [px]

800x480, 800x600, 800x1280, 1024x768, 1280x800, 1366x768

