Functions
L-WEB, L-STUDIO
L-ROC
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# L-STUDIO 3.0

Datasheet #89056221

L-STUDIO

L-STUDIO has established itself as an integration platform for the L-ROC system for individual room control installations. With the new version L-STUDIO 3.0, LOYTEC is now taking the next step and extending the programming function by a development environment in accordance with the industry standard IEC 61131.

## L-STUDIO 3.0

Special challenges have arisen for the building automation market over the last few years. The search for energy-efficient operation requires complex control algorithms. At the same time, the comfort for the building's tenants needs to be increased. For regulating primary plants, e.g. ventilation systems, heating control systems or VAV systems, room automation is a relatively young discipline with a regulation of local functions such as lighting, shading and indoor climate. The highest degree of energy efficiency can only be achieved by a functional link-up of primary plants and room automation. Executing companies struggle with considerable cost pressure to offer these systems competitively. At the same time, the largest share of the total costs is attributable to the factor working hours. An essential part of a modern building automation solution is therefore a system that provides tools for the rapid and efficient planning of individual solutions.

There are several devices for the automated control of buildings available. Why do you need another system and what is special about L-STUDIO? The special feature is the comprehensive integration at all levels of the building control system, which enables extremely efficient and cost-effective workflows.

## Integration of logic and data points

In L-STUDIO, data points for communication can be stored directly in logic blocks. Functions can be created either using one of the supplied libraries or by the user himself. As a configuration interface, the already familiar L-INX Configurator was integrated into the L-STUDIO software. The data points are generated automatically in the controller as soon as an instance of the function block for the program is created in the controller. The complete spectrum of LOYTEC's standard protocols (BACnet, CEA-709, Modbus, M-Bus, KNX, EnOcean, SMI, ...) is supported. But not only the data points are created automatically, all automation functions such as alarms, timer programs, trend logs or historical filters, which are specifically defined for these data points, are also generated without further configuration effort.

## Integration of logic and visualization

The data points are the backbone for communication in a building automation system - the beautiful face, however, is the graphical visualization through which the end user operates the system. The visualization can be defined simultaneously with the logic functions. For each function block, one or more different "symbols" can be generated. The configuration tool "L-VIS Configurator", which is known from the LOYTEC Touch Panels and the software L-WEB, is integrated directly in L-STUDIO. All controls and functions, such as events or triggers, are available in the symbol editor.

## Building management: L-STUDIO and LWEB-900 work as a team

In the case of larger projects, a central control system (building management system) is necessary, such as LOYTEC's LWEB-900 system. L-STUDIO projects can be directly imported into the LWEB-900 database. All devices including their configuration are created and saved automatically. Likewise, the graphical projects are loaded and converted from the devices so that they can be used as graphical views in LWEB-900. When changes are made to the L-STUDIO project, the imported data in LWEB-900 can be updated in a single step. Special functions on the management level, such as customizing parameters or the management of timer programs and alarms, are adjusted with the LWEB-900 software.

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**Engineering Tool**

# L-STUDIO 3.0

| Runtime licenses | | |
|---|---|---|
| **Controller** | **License** | |
| | **L-LOGICAD** | **L-STUDIO** |
| LINX-153, LINX-154 | included | included |
| LINX-215 | upgradeable | included |
| LIOB-18x | included | n/a |
| LIOB-48x | included | n/a |
| LIOB-580, LIOB-581, LIOB-582, LIOB-583, LIOB-584 | included | n/a |
| **LIOB (V2) = with new hardware version** | | |
| LIOB-18X (V2) | included | n/a |
| LIOB-48x (V2) | included | upgradeable |
| LIOB-580 (V2), LIOB-581 (V2), LIOB-582 (V2), LIOB-583 (V2), LIOB-584 (V2) | included | upgradeable |
| LIOB-585, LIOB-586, LIOB-588, LIOB-589 | included | included |
| LIOB-590, LIOB-591 | upgradeable | included |
| LIOB-AIR1, LIOB-AIR2, LIOB-AIR13, LIOB-AIR20 | n/a | included |
| LDALI-PLC2, LDALI-PLC4 | n/a | included |