



ALTENBURGER
ELECTRONIC GMBH

AQSTATION

Integrated Home Controls



AQStation - Technology meets comfort



AQSTATION-SYSTEM

The AQStation-System is a modern and progressive technology for buildings. It offers a high degree of functionality and safety. Fast and efficient planning, assembly and cost savings can be achieved thanks to a simple installation procedure of electrical components. The local LAN/Wi-Fi network is used as a BUS-system. Such solution enables control and visualization of the AQStation equipment with smartphones/tablets with iOS or Android operating system.



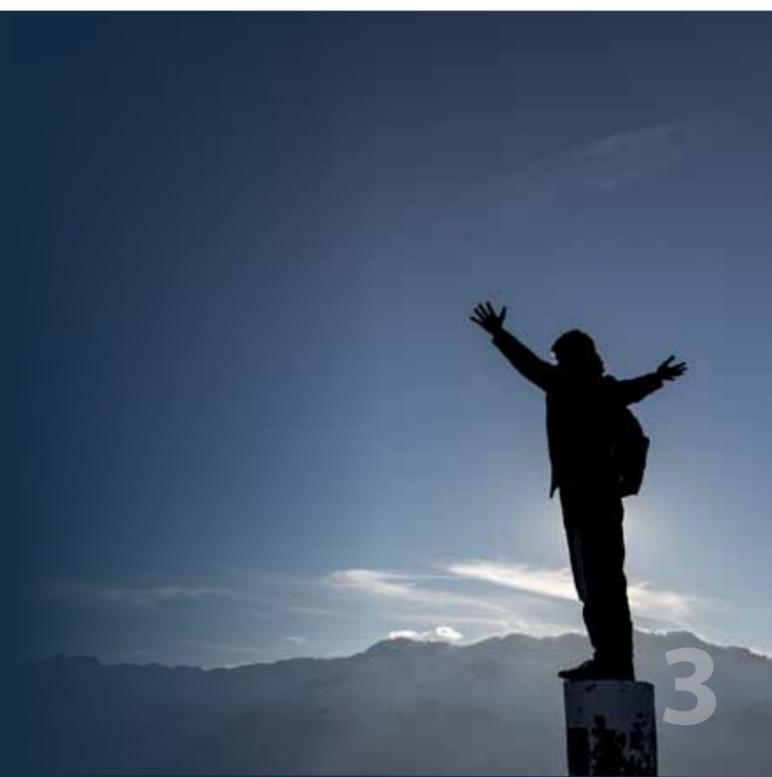
SMARTPHONES AND TABLETS



An easy start with new iOS or Android smartphones/tablets. The visualization is set up automatically just after installation of a proper App and it doesn't need any software configurations. The system can be controlled with an unlimited amount of iOS or Android devices.

ALL POSSIBILITIES IN YOUR HANDS

You are able to create, process or change your individual applications like scenes, groups or timers. You don't need any programming skills. With this App you can use all applications in a simple and comfortable manner.





UPDATES

We are developing the AQStation system continuously. Because of that, you can regularly download the updates for free.

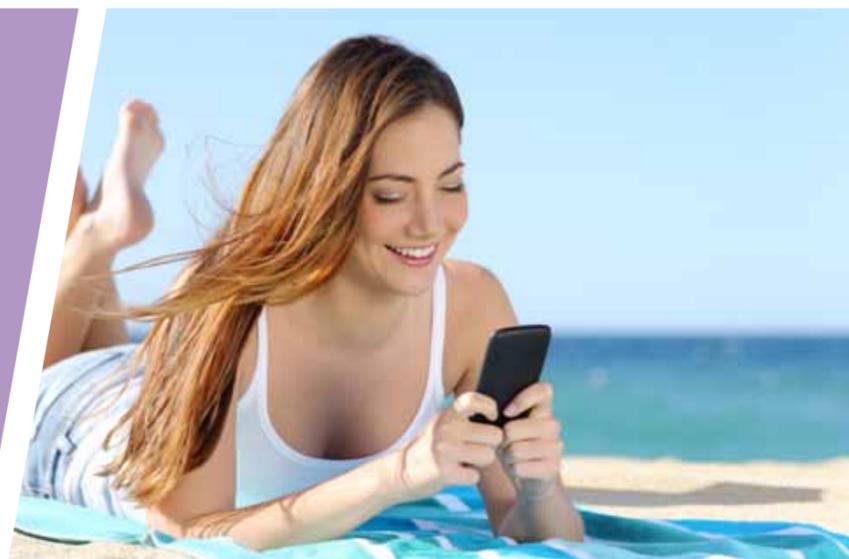
ENERGY EFFICIENCY AND AUTOMATION

With this efficient building automation system it is possible to reduce a significant part of energy costs, because the AQStation system fulfils a great number of automatized functions.



GLOBAL ACCESS

You don't need any gateway-modules in order to have a remote access with your smartphone/tablet. The AQStation system is controlled via a VPN-connection (Virtual Private Network) between router and smartphone/tablet.



COMFORT

Thanks to a high level of automation in the AQ-Station system, as well as an easy and intuitive control with smartphones and tablets, the user comfort can be increased in a noticeable way.

SYSTEM EXPANSIONS

As a consequence of constant and further development of the AQStation product family, we provide new possibilities of building automation. The new equipment can be easily integrated with the existing system in order to expand a wide range of functions.



SAFETY

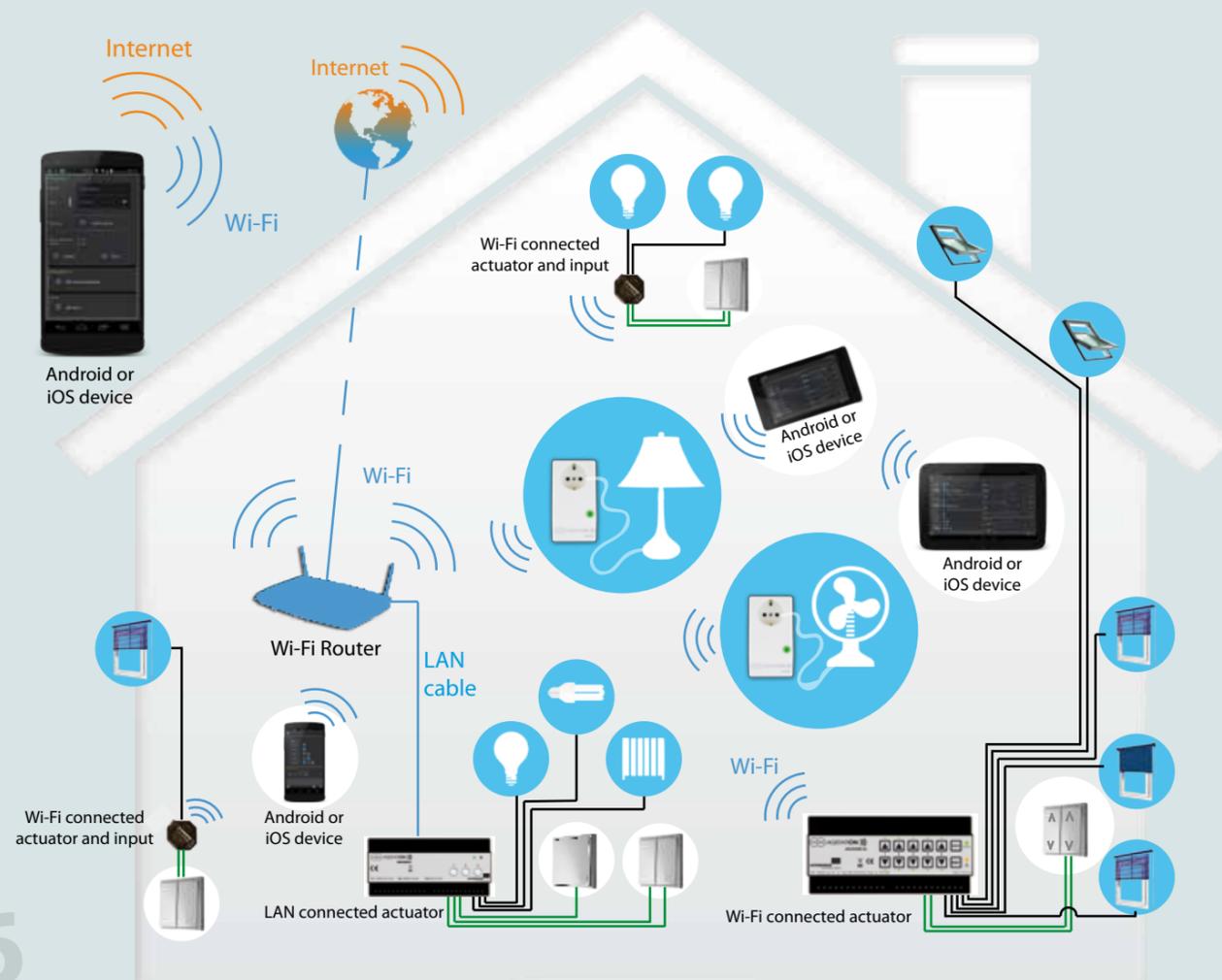
The traditional systems of building automation have in many cases unsatisfactory IT safety level regarding their network components. The AQStation system supports the internationally accepted Wi-Fi safety standards WPA2-PSK with the Advanced Encryption Standard (AES) and Wi-Fi standards IEEE 802.11 b, g and n. Moreover, the authorization system protects communication between all devices with 4096bit encryption.



FUNCTIONS OF THE AQSTATION SYSTEM

The AQStation system uses your local LAN/Wi-Fi network as a BUS system. The decentralized structure of the system replaces various central elements like touch panels, web servers or HUBs. Standard smartphones/tablets with iOS and Android operating systems can be used in order to control and visualize the AQStation devices. No software licensing costs are incurred. Moreover, the system can be expanded easily.

The synchronization functions developed by Altenburger Electronic GmbH allows controlling commands both with the App and external buttons. The App will immediately react (also cross-platform) and will directly display the current status or changed set value.



AQSTATION APP

The AQStation App is available for iOS and Android devices in the particular stores for free.

It provides the bidirectional control with feedback status. All connected actuators are synchronized and they enable a comprehensive networking. Each smartphone/tablet can automatically recognize a new access and synchronizes it with the system App.

Each output can be assigned up to 100 groups and timers. Following types of groups are possible: on-/ off-groups, dimmable groups, scenes and jalousie groups. Additionally, each group can be combined with up to 100 timers. These groups are equipped with coherence function that updates the out-of-date participants.



DIMMING

The dimmed light can improve the lighting and living quality in a private environment, can adjust the lighting conditions during the working day with specified requirements and on top of this, can contribute to energy saving. In addition, it extends the durability of lamps.



DIN RAIL MOUNTED DEVICES

All AQStation devices for standard distribution are equipped with both Wi-Fi and LAN interface, which enables connection of these devices with the Wi-Fi and LAN network. Fast and efficient planning, assembly and cost savings can be achieved thanks to a simple installation procedure of electrical components.



SWITCHING

The switching contacts fulfil many functions in a modern building automation. The switching procedure depending on the individual requirements or as a reaction to external influences can be easily implemented with the AQStation system. Also central switching operations can be applied in an easily and reliable manner.



AQStation Universal (LAN/Wi-Fi)

The AQStation Universal is a LAN/Wi-Fi based control device for three circuits in a standard casing. Each circuit has a combination interface (0-10 V + 3mA / 1-10V - 100mA) and a 10A volt-free relay output. The three circuits can be connected freely.



AQStation Switch 3x10A (LAN/Wi-Fi)

The AQStation Switch is a LAN/Wi-Fi based control device with volt-free relays for three circuits. These outputs are designed to switch electronic devices of all kinds up to 10A.



SHADING

The sun protection devices fulfil a wide range of requirements and because of that they shall be considered during performance of the future-oriented and energy efficient building installations. The AQStation jalousie-modules meet the demands in offices, functional buildings or residential buildings in an easy and safe way.



DIGITAL INPUTS

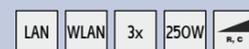
In connection with a wide range of applications the digital inputs play an important role by performing the future-oriented and energy efficient building installations. Many freely-combined devices can be connected with these inputs, like: buttons, switches, motion detectors, presence detectors, contacts (ex. window and door contacts), guards, alarms (ex. water guard, window guard).

The digital inputs immediately release various actions in the AQStation system. For example, the motion detector can control light in a room.



AQStation Dim 3x250W (LAN/Wi-Fi)

The AQStation Dim 3 x 250 W LAN/Wi-Fi controlled load dimmer for three circuits (3x 250W) in standard casing. It is intended for the dimming of high-voltage halogen lamps, low-voltage halogen lamps (via electronic transformers), power-LEDs (230 V), LED converters and incandescent light bulbs.



AQStation Jalousie 5x (LAN/Wi-Fi)

The LAN/Wi-Fi based control device with five jalousie outputs in standard casing. Each output has two volt-free relays 5A and one voltage input. Such solution enables connection of various motor voltages. The relays of circuits block each other in order to ensure proper usage.



AQStation DALI BRIDGE 3x (LAN/Wi-Fi)

The LAN/Wi-Fi based control device in standard casing with three DALI outputs, each with 64 DALI participants. The DALI participants are immediately ready to use, they don't need any start-up procedures or assignment to group. All DALI devices are approached together (broadcast operation). The control device is equipped with current supply for interfaces of 3x64 DALI participants.



DEVICES FOR ELECTRONICS BOX

All AQStation devices for the electronics box are equipped with Wi-Fi interface. Thanks to the easy and decentralized installation of components, can be achieved both fast and efficient planning and cost savings.

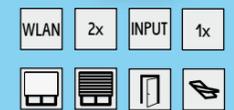
AQStation UP Input 4x (Wi-Fi)

Wi-Fi-based control device to install in an electronics box with four freely programmable volt-free binary inputs. It is used e.g. to integrate conventional switches, buttons and detectors with the AQStation system.



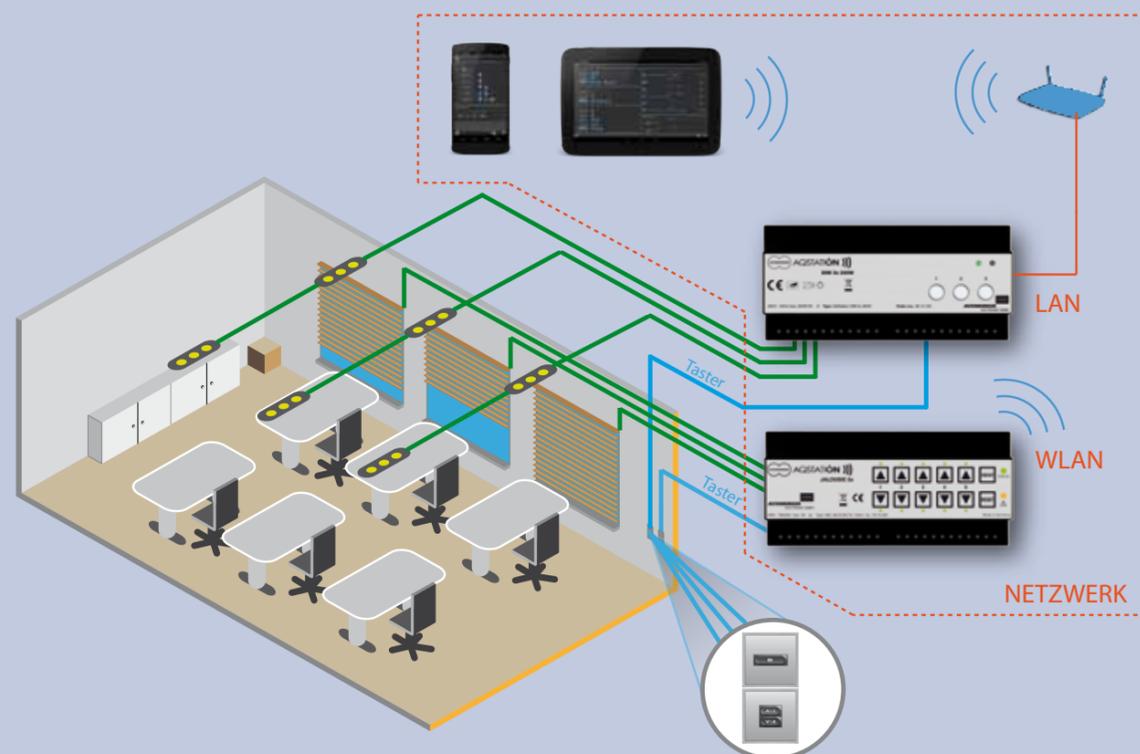
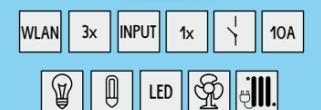
AQStation UP Jalousie 1x (Wi-Fi)

Wi-Fi-based control device to install in an electronics box with one jalousie output and two freely programmable volt-free binary inputs. The output has two non-isolated relays 5A and each with button input with function up/down. The relays of circuits block each other in order to ensure proper usage.



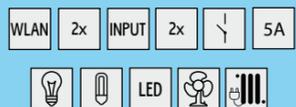
AQStation UP Switch 1x (Wi-Fi)

Wi-Fi-based control device to install in an electronics box with one switch output and three freely programmable volt-free binary inputs. The output has one non-isolated relay 10A and a button input.



AQStation UP Switch 2x (Wi-Fi)

Wi-Fi-based control device to install in an electronics box with two switch outputs and two freely programmable volt-free binary inputs. Each output has a non-isolated relay 5A and a button input.



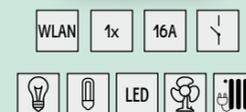
MOBILE DEVICES

The AQStation devices in connector casing are equipped with a Wi-Fi interface. They can be used for connection between socket (230V, 50Hz) and load.



AQStation DIMMER 350W (Wi-Fi)

The mobile Wi-Fi-controlled load dimmer (350W) in connector casing to connect socket (230V, 50Hz) with load. It is intended for the dimming of the high-voltage halogen lamps, low-voltage halogen lamps (via electronic transformers), power-LEDs (230 V), LED converters and incandescent light bulbs.



AQStation SWITCH 16A (Wi-Fi)

The mobile Wi-Fi switch in connector casing to connect socket (230V, 50Hz) with load. It is designed to switch the electronic devices of all kinds up to 16A.



START-UP IN MINUTES

Thanks to the easy, intuitive start-up with iOS and Android smartphones/tablets and the AQStation App, it is possible to activate the AQStation devices in less than few minutes. They can be switched on without a PC or special software.



PRIVATE BUILDINGS

The decentralized system and replacement of central elements like touch panels, web servers and HUBs deliver a high level of comfort, flexibility and cost savings - also in a private environment.



COMPREHENSIVE FUNCTIONALITY

Together with the fast and easy start-up, the AQStation system delivers a wide range of popular building automations. Moreover, it offers also many visualization possibilities. With a high degree of user-friendliness the developed functions can be individually implemented in an easy way.



INDUSTRY

The existing LAN/Wi-Fi network infrastructure of the AQStation system can be applied without any problems in the industrial objects - in contrary to the typical BUS systems, it doesn't need a high cabling effort. Moreover, the AQStation system is characterized both by flexibility and extensibility and simple implementation of additional and central functions.

USER FRIENDLINESS

Thanks to a high degree of user-friendliness also inexperienced users can easily use AQStation system and applications. A long and expensive training is unnecessary.



PUBLIC BUILDINGS

The AQStation system can be used for the internationally accepted Wi-Fi safety standards WPA2-PSK with Advanced Encryption Standard (AES), for Wi-Fi standards IEEE 802.11 b, g and n and also for multilevel authorization system with 4096bit encryption. The AQStation system is suitable for public buildings with high security requirements.





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