Passion for Innovation

A Complete Solution

we control them all!

MADE IN ITALY

All the Alveo servers are designed and optimized to manage the home automation system. They arebuilt for continuous operation with fanless processing device.
The use of Linux operating system and industrial solid state memory grants enhanced system reliability.
Further appealing characteristics are the direct KNX connection drived by proprietary stack, very lowpower consumption and additional ports to integrate third party devices.
The Micro server empowers all these features using less than 1W!

ALVEO compact

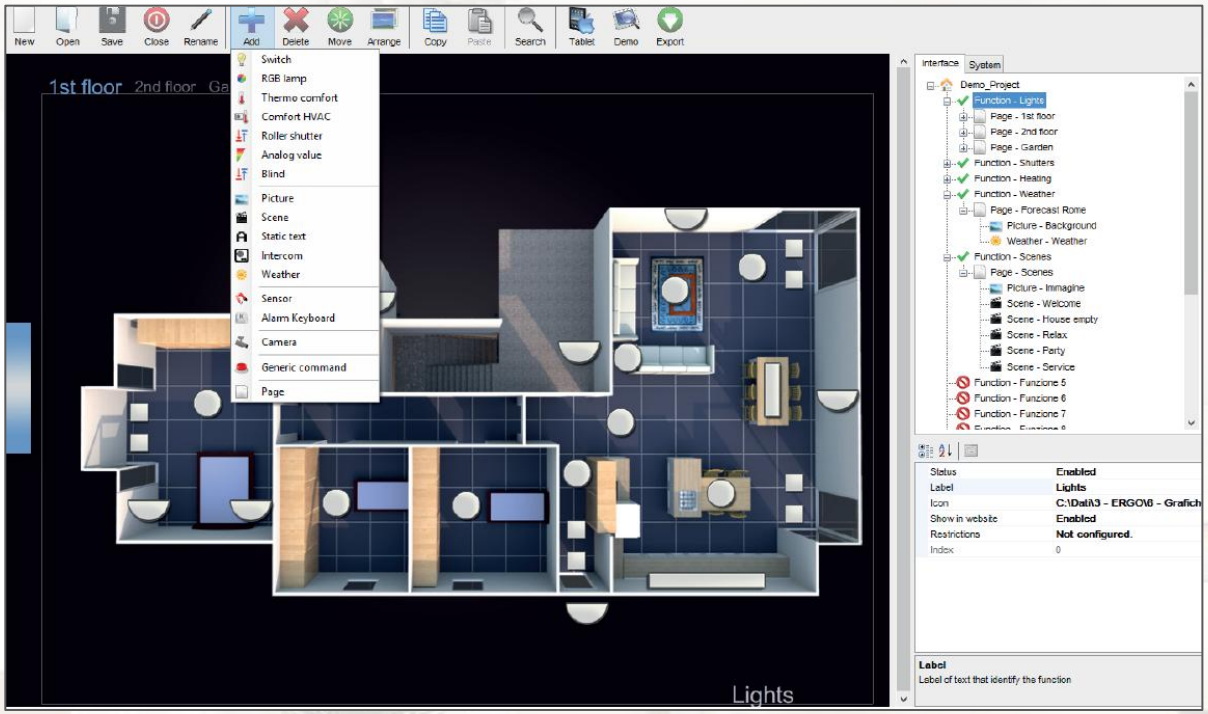
- fanless processing device optimized for continuous operation
- mass memory on industrial Compact- Flash
- power: 12-18 VDC - 1A Max
- proprietary interfacing electronics
- nr. 1 EIB/KNX port
- nr. 1 network port
- nr. 1 standard RS232 serial port with DB9P connector
- nr. 1 USB port
- KNX telegrams led

ALVEO micro

- fanless processing device optimized for continuous operation
- mass memory on MicroSD
- power: 12-24 VDC - 1A Max
- proprietary interfacing electronics
- nr. 1 EIB/KNX port
- nr. 1 network port
- KNX telegrams led
- consumption 1 Watt

Thinknx offers a range of **native** applications to allow interfacing of iPad, iPhone, Android tablets and smartphones, Windows touch screen and PC with the supervision system. The decision to create native applications arises from the need to obtain **the best possible performance** during Wi-Fi or 3G connection to Alveo server, thus ensuring uncomparable user experience.

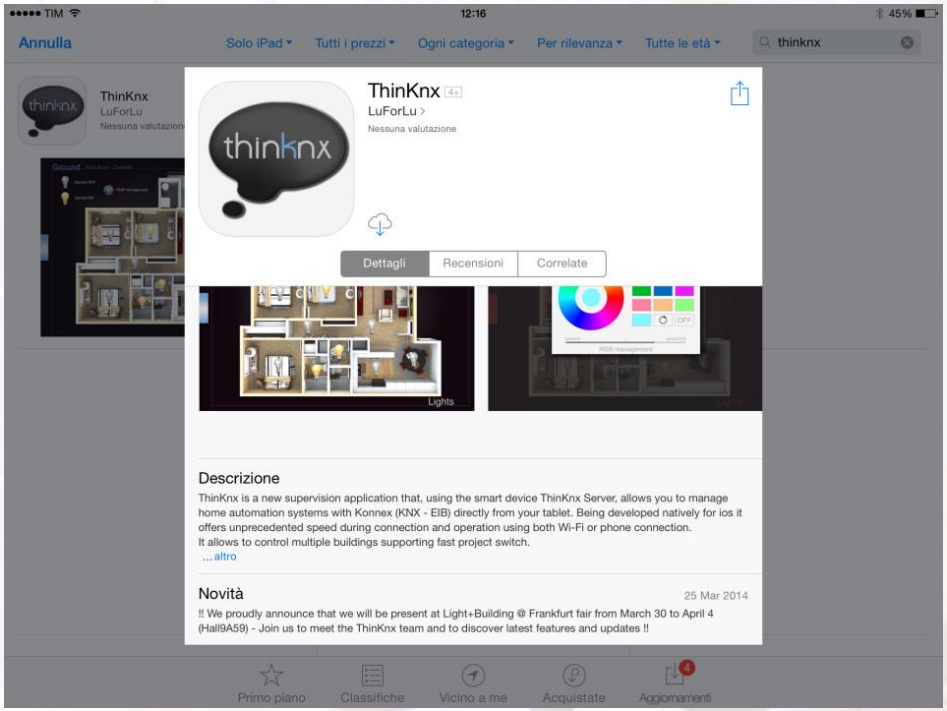
Configurator



Thinknx Configurator is the tool for the creation and development of the supervision project. It allows to create all the connections needed between the GUI and the actual devices that are part of the system. With simple steps and intuitive parameters, graphical interfaces can be compiled with deep customizations and used with all clients and all devices.

Just as easily, you can create logics and configure system elements in order to achieve integration between all devices. Finally, the tool allows to load the project on client devices and Alveo servers withdifferentiated exports according to the specific user.

The configuration tool is compatible with systems running Windows XP or later.



Apps **„Thinknx“** and **„Thinknx tester“** for the iPad & iPhone are available on the Apple App store
Once installed the app, you can upload the project created with the configurator via WiFi connection, directly from your pc to the iPad

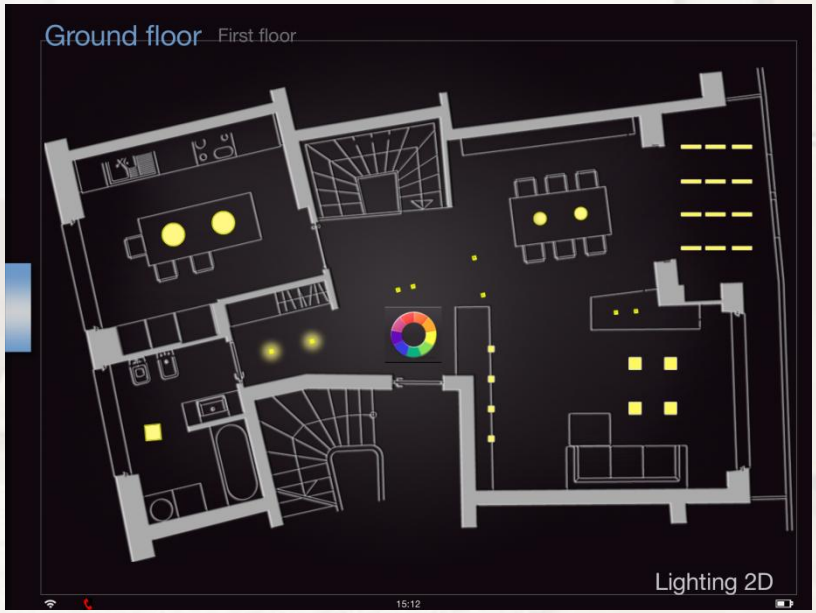
App **„Thinknx“** for Android is available on Google Play.
After having exported the project with the configurator, you have just to copy the file to a „thinknx“ folder onto the tablet the have it running.

Navigation menu

A retractable main menu with the a colored tab will allow a comfortable navigation through the various functions simply scrolling them.
Selecting the desired function will lead directly to the sub-pages.
Labels and icons are **completely customizable**.

Customized pages

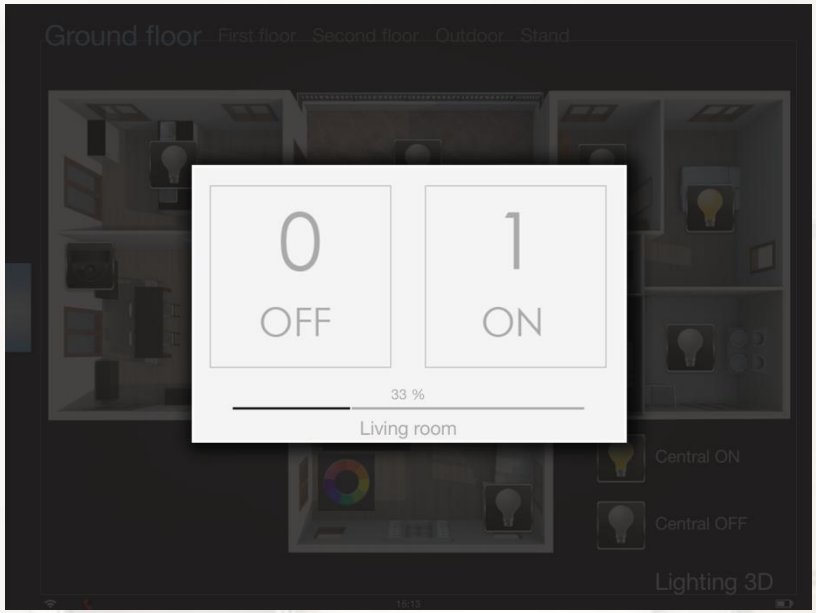
On the various sub-pages you can add a personalized background (floor plan or photo) and freely position the icons (lights, motorizations, thermostats, ecc.). You can use our predefined icons or the ones you created on your own.



The single icons will become active simply connecting to the KNX group addresses of the imported ETS project.

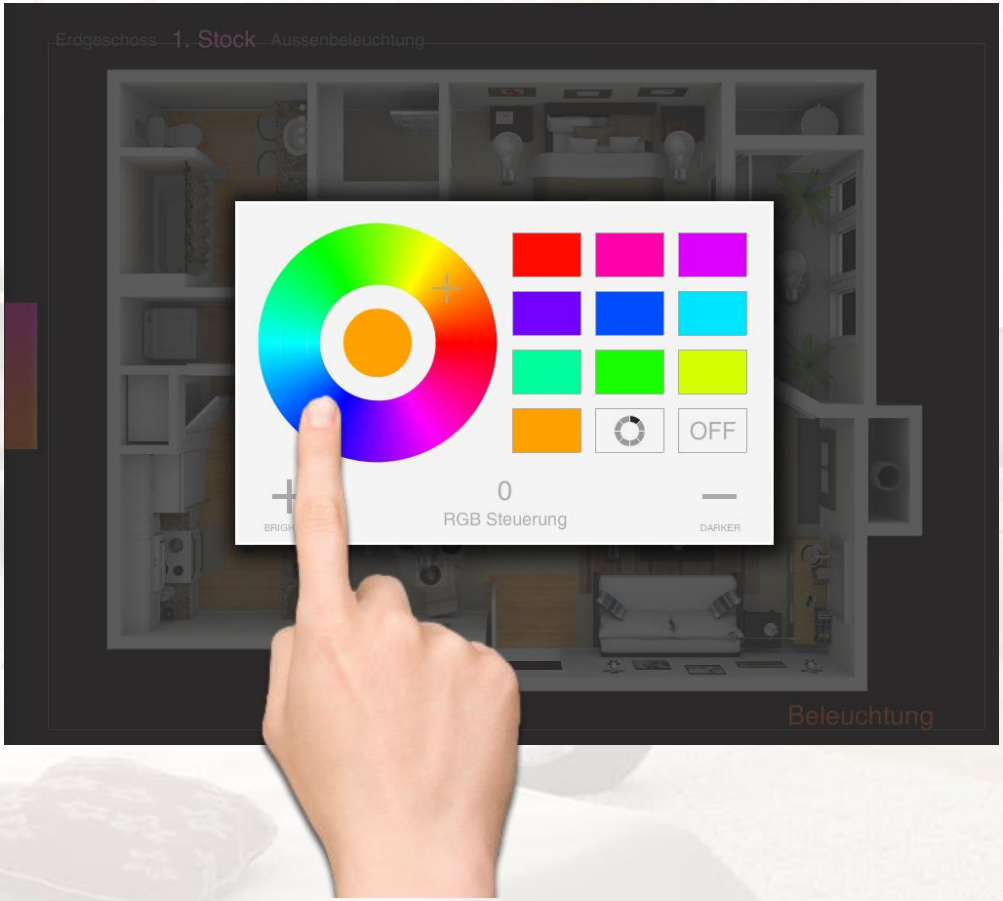
Pop-up functions

For the more complex objects such as dimmers, motorizations, RGB and chronothermostat the system automatically opens pop-ups. So you can choose for example to turn the light on/off or to send a percentage value.

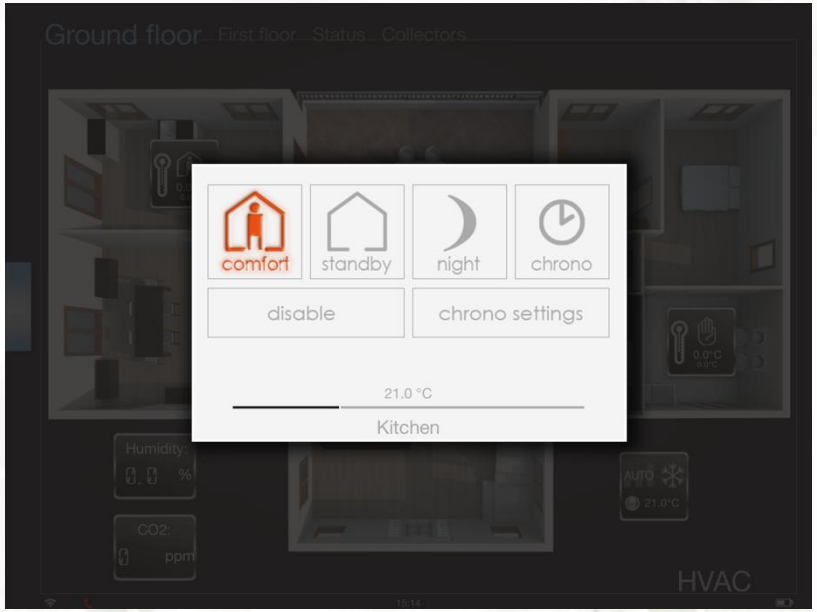


The whole graphic and logic for the pop-up windows is already done, so programming times are considerabely decreased.

RGB control

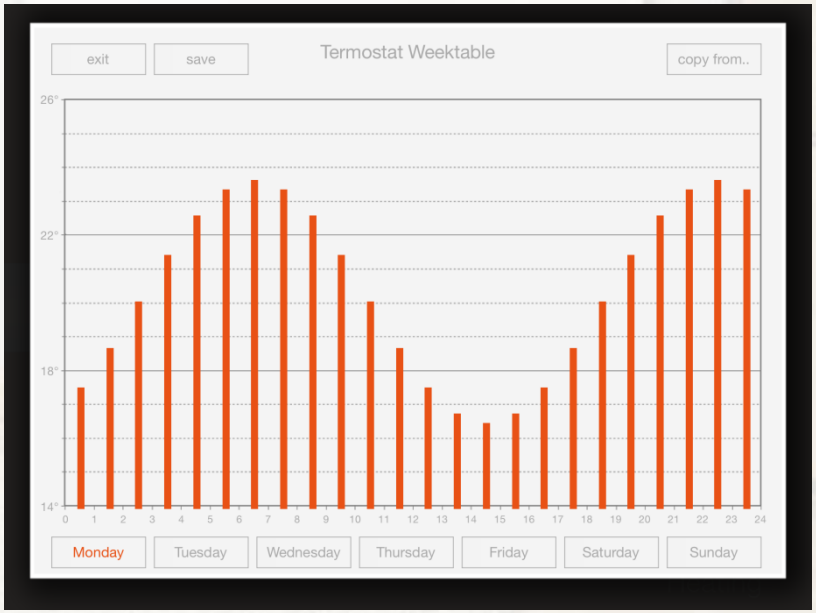


RGB LED control:
You only have to connect the 3 KNX 1-byte group addresses in the configurator and a pop-up is available with the following functions: color selections through jog-wheel, saving of 10 preferred colors and setup of timed sequences.



Through the pop-up „chronothermostat“ you can send the setpoint to the heating/cooling system and choose the desired functioning modality.

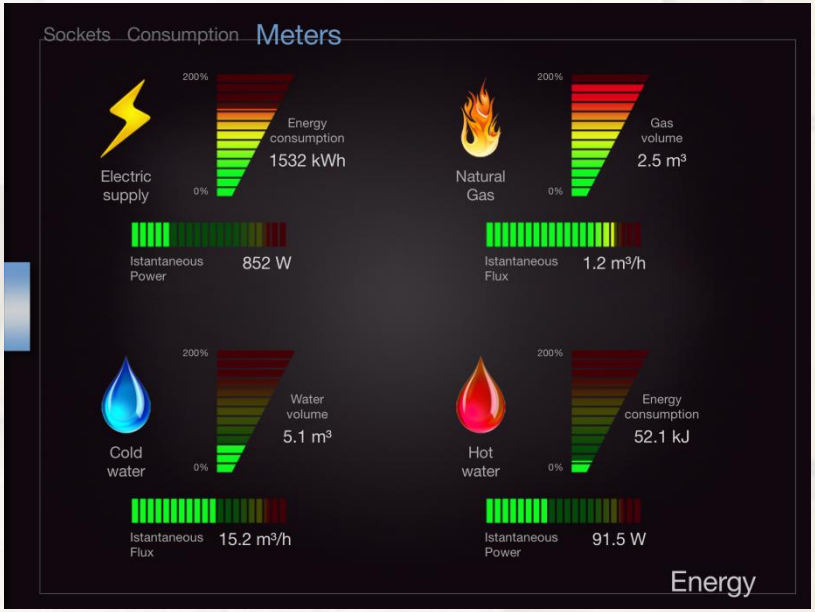
Activating the „chrono“ function the customer can easily and intuitively setup a weekly timer program for each zone.

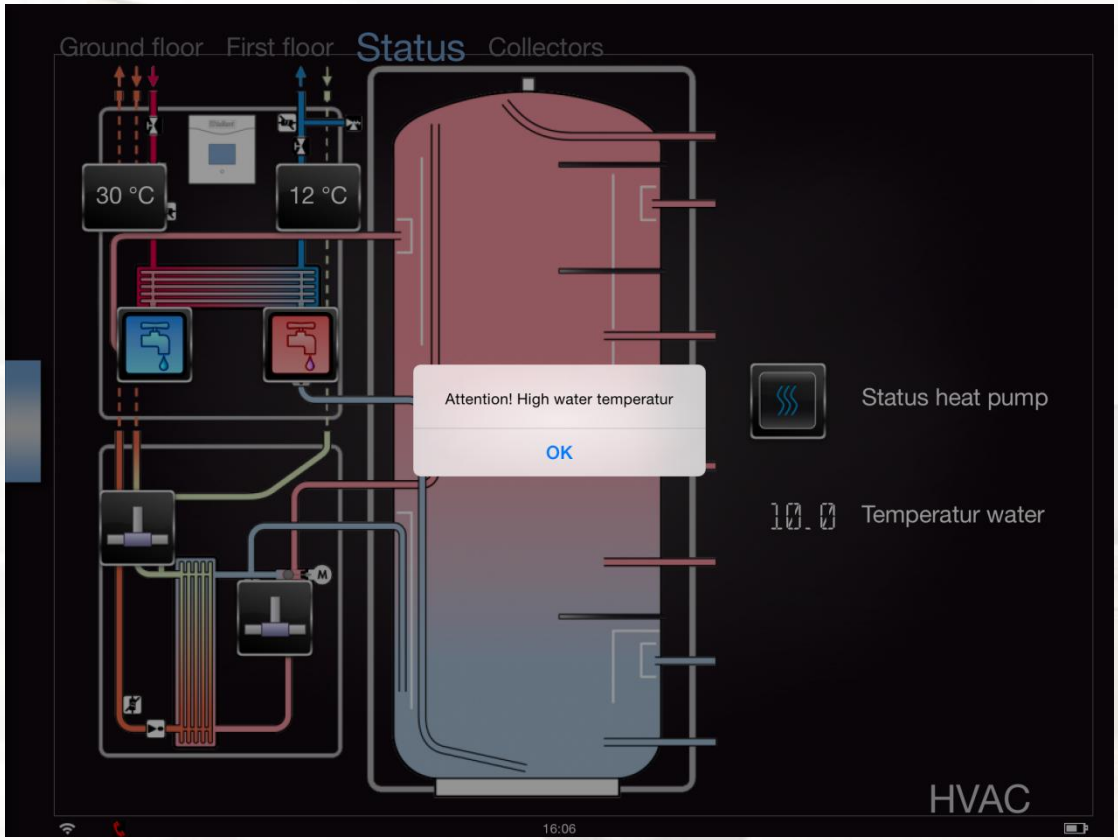


Smart metering

You can display the status of every single load and control it manually. The load control automatically switches off up to 6 loads with different priorities and permits to be warned when a given threshold is overshooted.

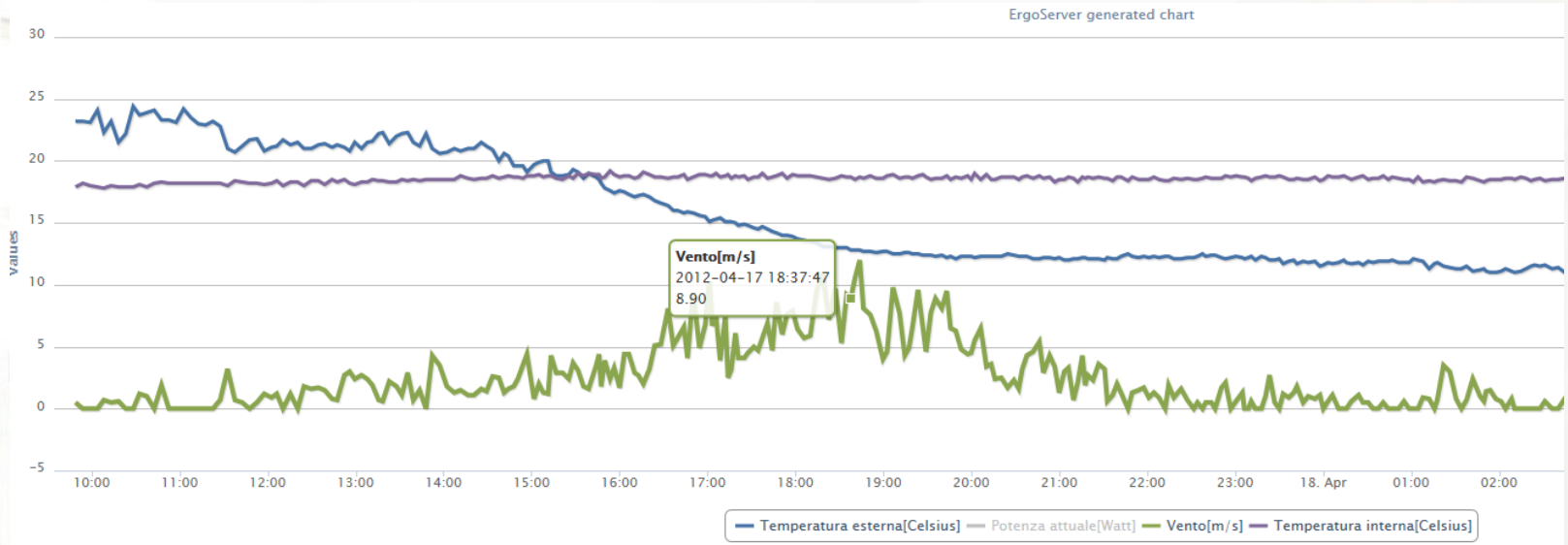
All the analog values (energy meters, weather data, etc.) can be visualized through a graphical indicator or a numeric value.





With the system function "universal gateway" you can recall the system functions to send Apple Push Notifications, send SMS or email or even change to a defined page after a defined KNX event.
This permits that in case of alarm the visualization automatically changes to the desired graphic page and on the iPad you receive an alarm message, also when the device is on standby or an SMS/email.

Charts & Reports

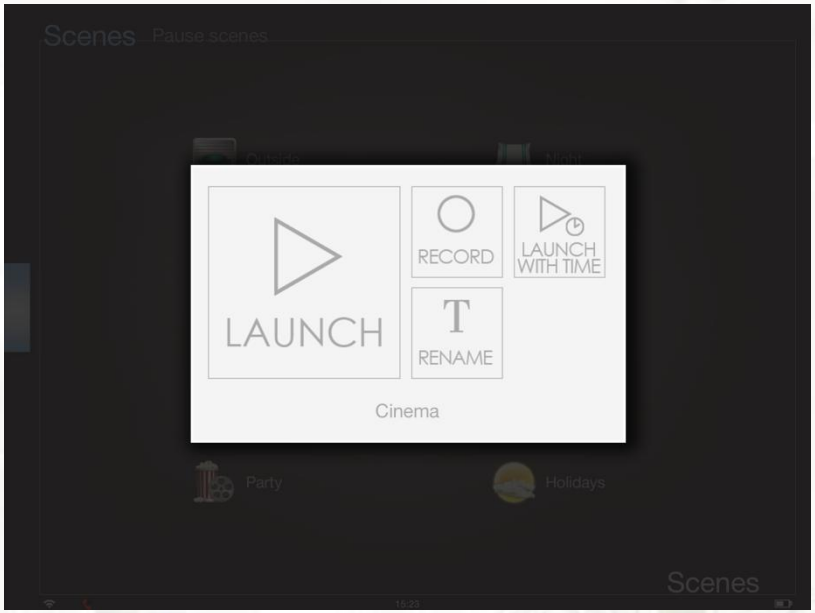


This plugin permits you to monitor and record analog any KNX values, like f.e. consumptions, temperatures, meteorological data, etc. and to send them to a list of specified mail addresses. You can freely set the reading interval of the values and the sending times of the mails. In addition to the values list you can also send a graphic version with the values shown as curves.

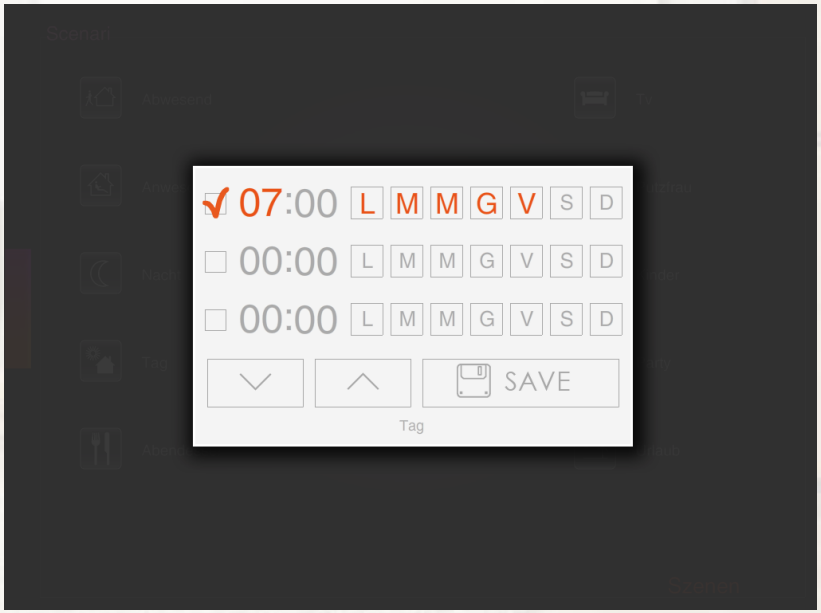
Scenes control

The scenery object can be freely positioned on the pages as any other icon. With the function „record“ the final customer can easily record his own sequence of commands. Once recorded it can be simply activated using the pop-up or you can assign it a KNX group address and recall it using a KNX push-button. Furthermore you can create scenes with timed functions, for example for audio/video control where you need to add pauses between one command and the other.

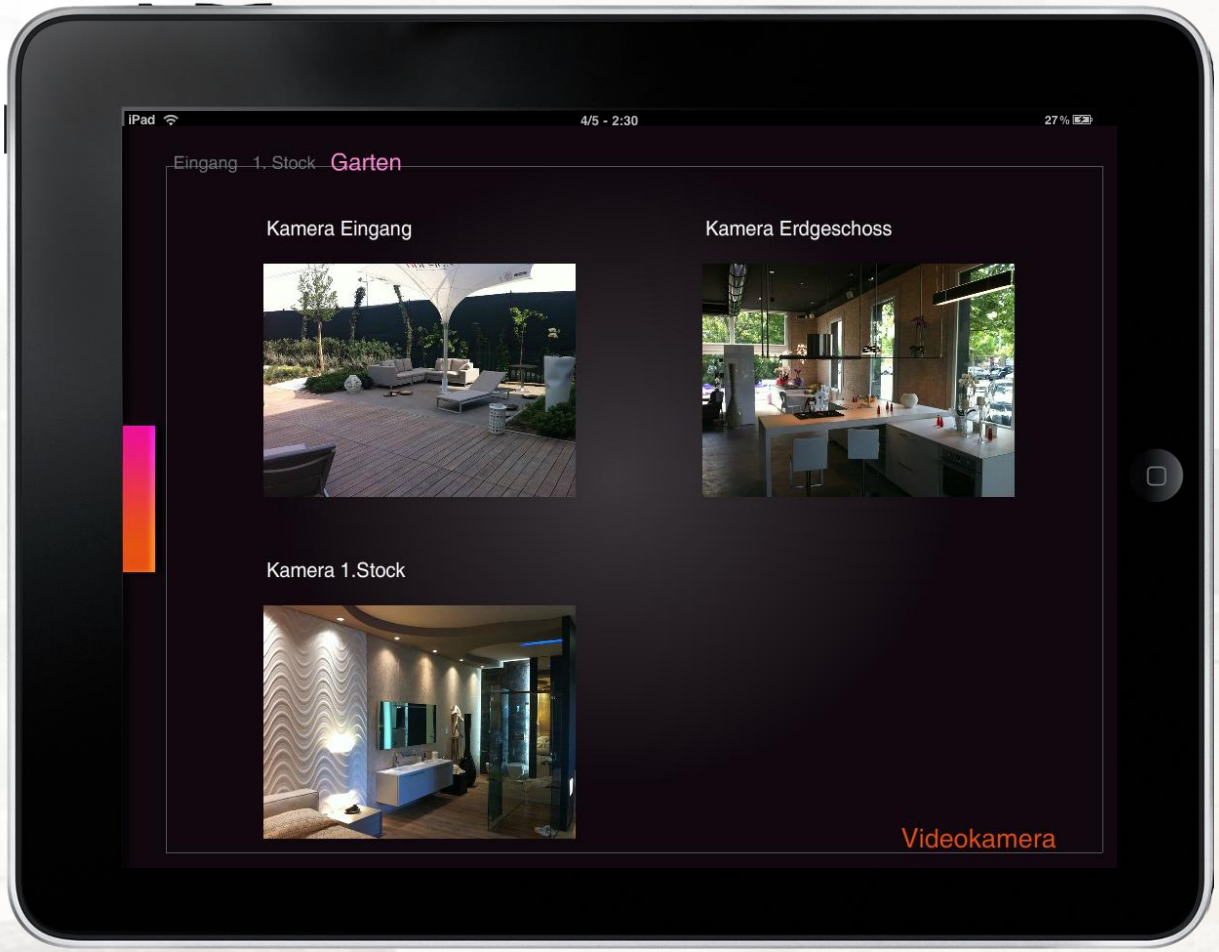
Scenes control



Through the scenes pop-up the customer can record and rename its own scenes.



It is possible to schedule up to three timers for each scene object. For example „morning scene“, presence simulation or irrigation can be started at a precise time.



It is possible to visualize every IP-camera which supports motion-jpeg. Multiple cameras per page are supported. You can compose your own page choosing between resolutions of 320x240, 640x480 or fullscreen.
Also the visualization of analog cameras is possible using IP-videoserver or DVR with motion-jpeg output.

Door comunication

Example graphics page

VoIP based door comunication is supported by all our native apps. on iOS devices, Android and Windows touchscreens. Capabilities of the system are enhanced integrating a VoIP server directly into Alveo. This permits to make group calls. Alveo will also directly configure devices from TCS, 2N and Mobotix

Alveo Compact / Micro

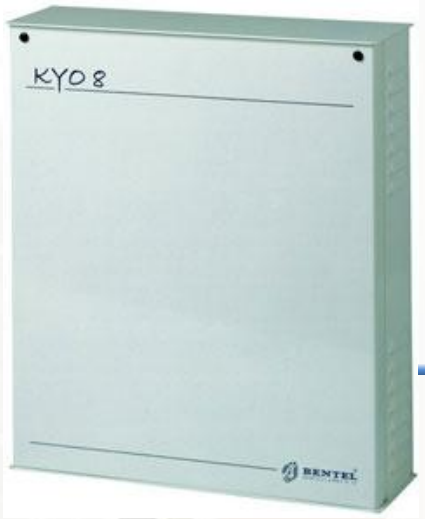
LAN network/ Wi-fi

Door stations

Indoor stations

Alarm devices

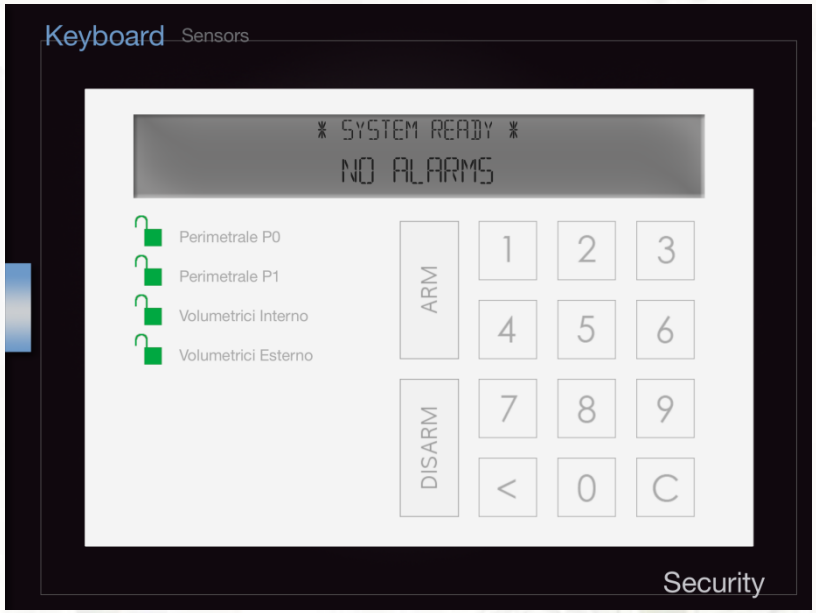
Alarm control unit



RS232/TCIP

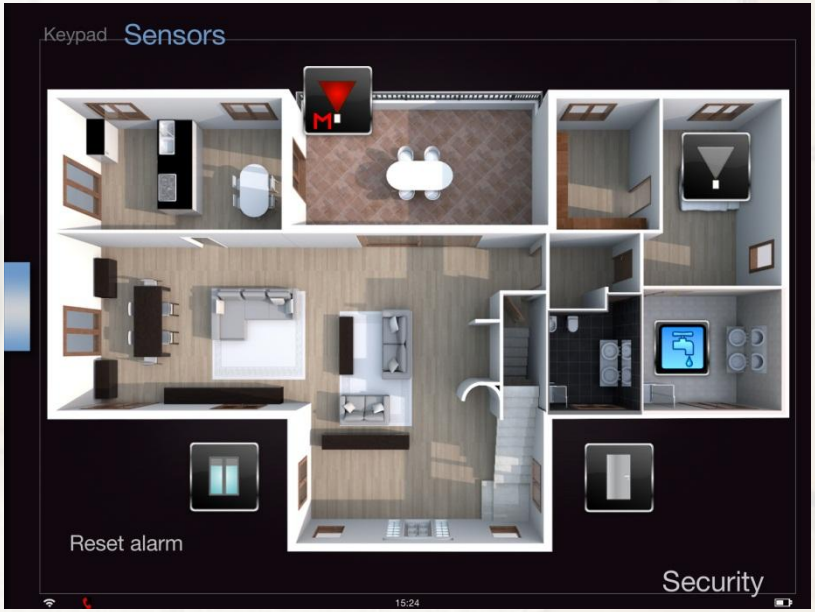
Thanks to the integration of numerous alarm systems the customer can view the status and operate his system using the supervision software.
You can associate a KNX group address to every alarm sensor, so you can for example turn on a light through a movement sensor of the alarm system.

Alarm devices



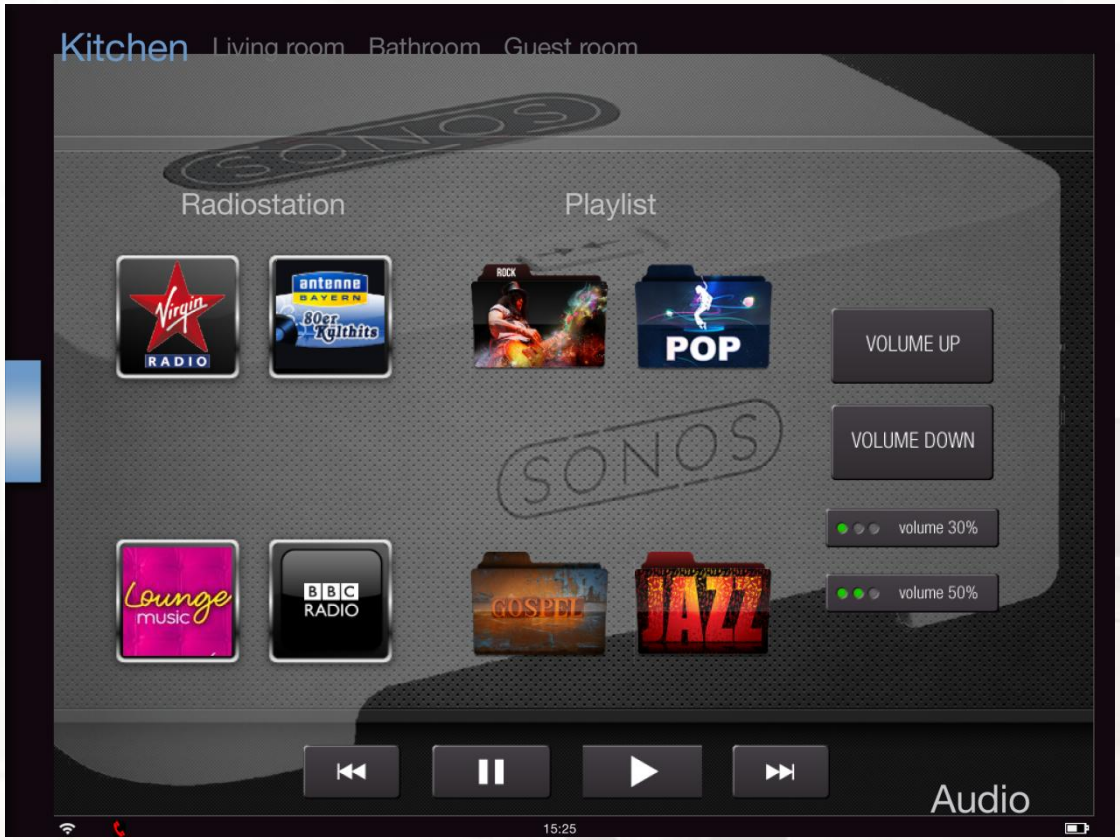
Keypad for remote control

Sensors state/exclusion/memory



Audio multiroom

Audio multiroom



All the audio multiroom commands are available also as KNX group addresses.
You can activate the following commands with every push button, room controller or binary input:

- Play/Pause
- Track + -
- Volume + -
- Percentage value volume
- Line In selection
- Reproduction of radio station or playlist

Audio/Video controller

Through the integration of numerous audio/video matrices and the IR-trans device the customer can manage his multimedia-system directly from inside a single app.

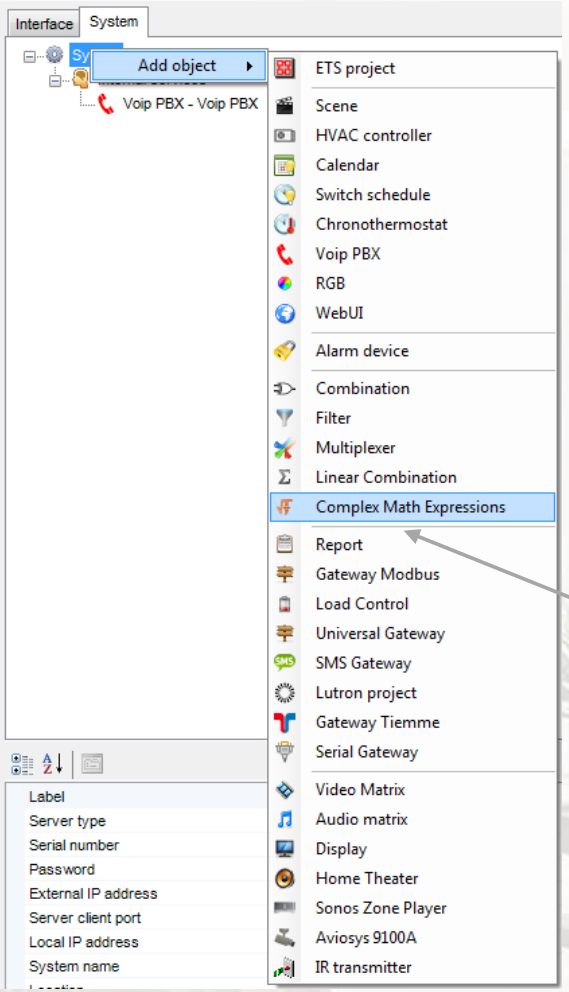
Audio/Video Control

Graphical example of the audio/video source selection.

Audio/Video Control

Thanks to the integration of the IR-trans device you can command every multimedia appliance. So your iPad can easily turn into a universal remote control.

Background services



Alveo server is capable of performing an impressive quantity of additional background services. Among these, for instance, logical operations, message filtering, gateway towards Modbus, etc.

Also complex mathematical functions can be performed for instance to compute:

- average temperature
- boiler power modulation
- loads consumption sum
- ventilation control

Practical examples and a more detailed explanation can be found on our website www.thinknx.com in the download / software area.

Server webpage

Alveo Server integrates also an internal web server that permits to perform remote maintenance on the system.
A KNX realtime groupmonitor is available to control KNX traffic and to read or write a particular group.
The server displays also log messages regarding operations carried out in order to facilitate researches and troubleshooting.
Logs can be filtered on a per topic base and can be exported to a csv file

A passion for technology and innovation, together with a desire to create tailor-made products for the Konnex world, has driven the companies Ergo Design & Technology and Pulsar Engineering to join forces in order to achieve this common goal.
The synergy between their shared skills and experience has led to the constant research and development of new products that offer innovative solutions for the entire scope of home & building automation.

www.thinknx.com