eSMART, intelligent connected solutions for buildings

www.myesmart.com

Each apartment is provided with an interactive touch screen - allowing residents to manage their home wherever they are in the world.

esmart

For sustainable and connected buildings

In an ever evolving market

Green building - the only way forward

Keeping up with the latest energy efficiency trends doesn't just mean upgrading individual properties any more – now, it requires a global management system, helping you stay connected with your properties.

Being in constant contact with your house

a must in today's society. Minimum fuss and time wastage, coupled with maximum comfort and security for residents: accessing your house's features while you're away has become part of everyday life. eSMART has taken a fresh and global look at modern living. Its personalised intelligence for the home means getting the best out your living space in an environmentally-friendly way.

Make the difference

today and equip your properties with a personalised solution.

eSMART, the first interactive and connected housing display

A single interactive touchscreen in each apartment brings everything together.

eSMART allows each home's features to be controlled and managed centrally and, furthermore, it also offers:

> video intercom (entry video system),
> cooling/heating regulation system,
> main lighting hubs,
> blinds, lighting, sockets, etc.

It acts as an easy-to-operate dashboard which displays

> real-time energy consumption data and history

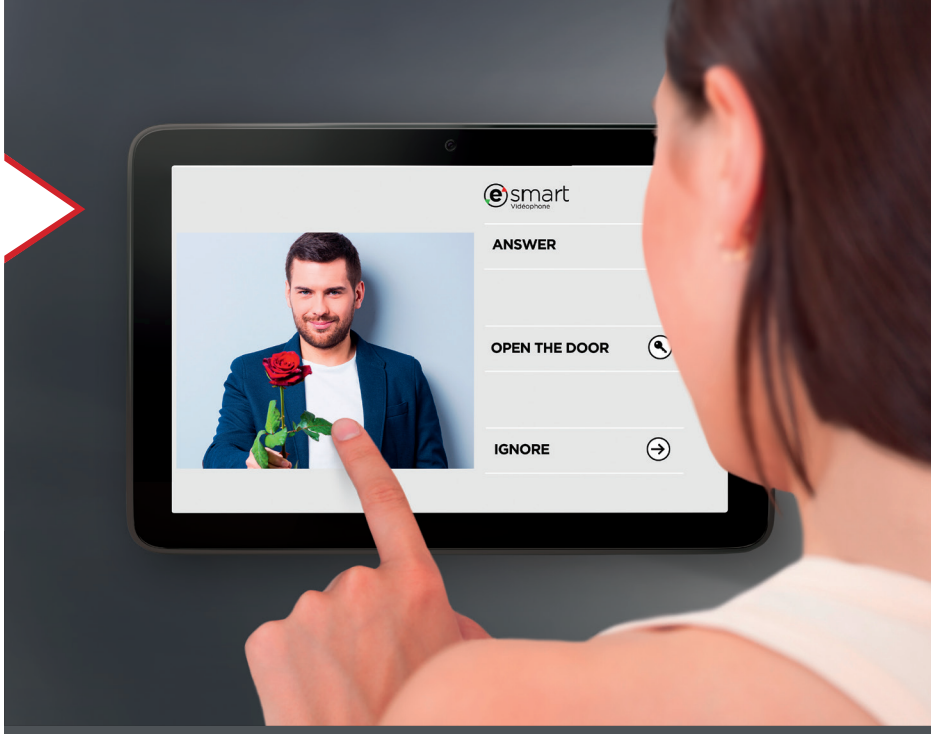
> personalised family and local area information

It allows you to access and manage your home remotely from your smartphone.

A simple design which reduces costs

This solution replaces traditional equipment used in homes and offers a new technology which simplifies installation without modifying existing electrical installations. eSMART means real added value at minimum cost.

An attractive touch screen for complete home management



An upgradeable solution which meets even the most demanding user's needs

The basic eSMART solution is ever-evolving and can be upgraded at the occupant's discretion with rewarding added options: centralised blind and shutter automation, smoke detection, light dimming, centralised control of all lighting, switching off of appliances in stand-by mode, music etc. The list of options is ever-growing. Tomorrow's connected services will facilitate the lives of multigenerational neighbourhoods.

These options can be installed during construction by an electrician.

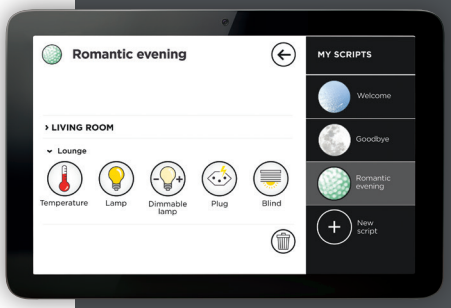
A quick start

The touch-screen is factory-configured and ready-to-use. It's easy to use as everything is on screen - no manuals or training needed.

It takes the occupant just a few seconds to enter the four digit code required to connect to the system via smartphone.

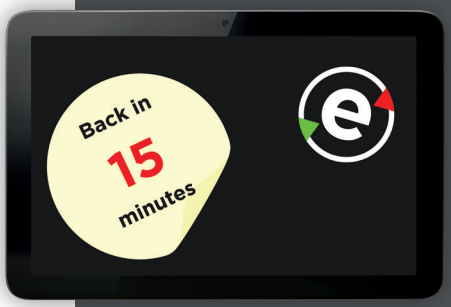
The interactive touch screen replaces the videophone

and brings together all the essential home features: room-by-room temperature control, opening the door to a guest after on-screen identification, turning on lights etc. One click is all it takes!



Simple and intuitive

Scene settings are highly intuitive and can be set by the user. Clicking on the 'Goodbye' button automatically switches everything off and lowers the temperature - it's as simple as that.

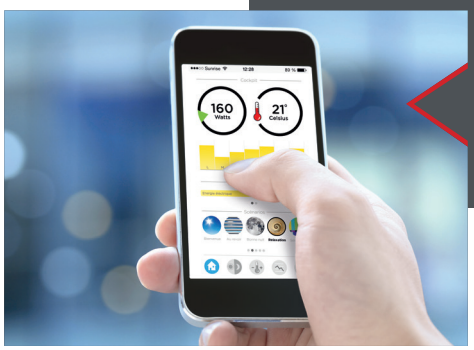


Local information and family business

The screen also allows family members to communicate with each other, e.g. via the family diary or by leaving a child a message. It also offers local information such as weather forecasts as well as bus and train timetables.

Remote access

Using their smartphones, occupants can change the temperature, turn off a light that was accidentally left on or even check their energy consumption.



ANDROID APP ON Google play

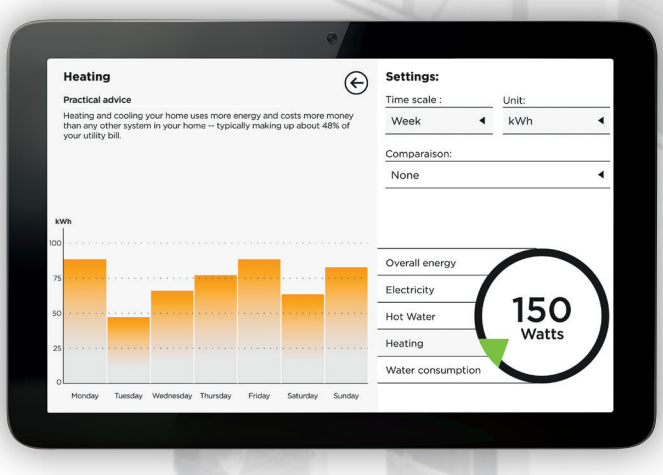
Available on the iPhone App Store

A further proof of energy efficiency

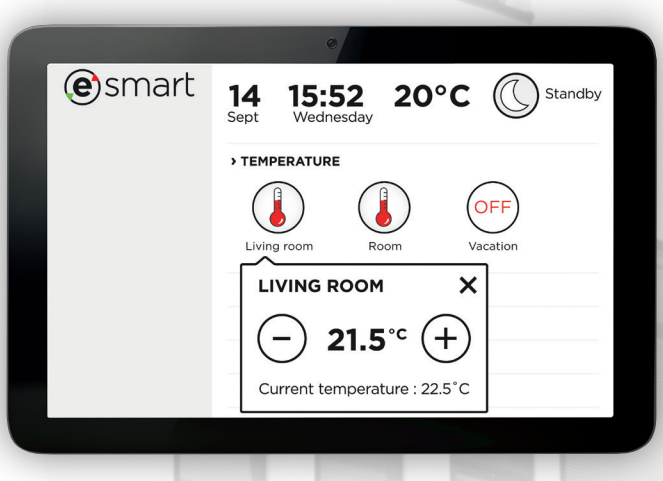
Real-time monitoring of consumption levels

In accordance with EN-14, known as DIFC, eSMART goes even further to offer occupants to monitor their heating, hot water and electricity consumption in real-time. They can also set themselves monthly consumption targets and consult their consumption history.
Just measuring and monitoring consumption can generate immediate energy savings of up to 10%.
Occupants who are made aware of their carbon footprint caused by the energy they use will change their habits.

Energy monitoring



Cooling/Heating control



Room-by-room cooling/heating regulation.

Room-by-room temperature regulation optimises energy consumption with minimal effort from the occupant.

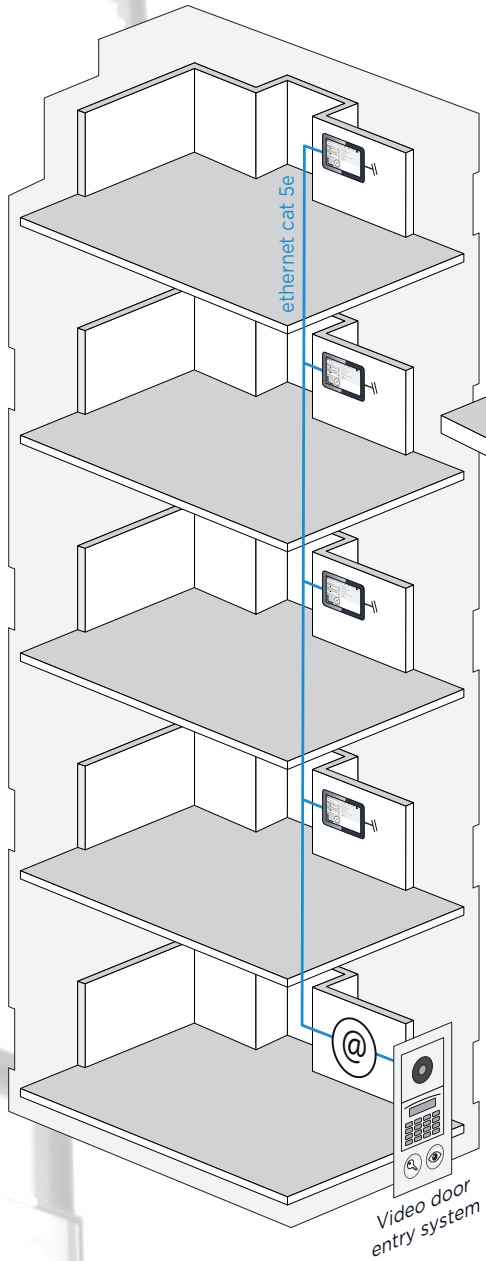
Why continue to cool/heat your home when no one's in?

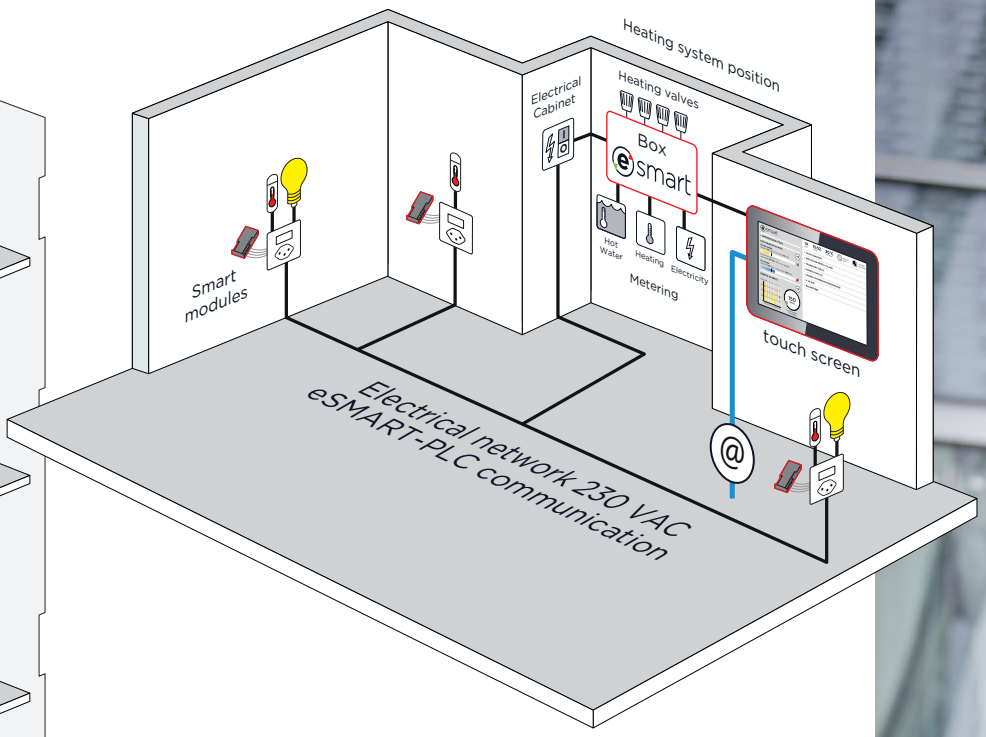
The 'Goodbye' mode, which is activated on leaving, means you can turn down the cooling/heating and turn off the lights without having to go around the apartment. 'Holiday' mode turns down the cooling/heating until the day you get back.

-15 % energy **Combining these advantages can make for savings of up to 15% - a subject buyers and residents are increasingly interested in.**

eSMART qualifies for Class A according to the construction standard SIA 386.110:

- Cooling/Heating regulation: room-by-room regulation with recognises when the occupant is away (requires presence sensor).
- Lighting control: on-off switch for the entire property (requires presence sensor).





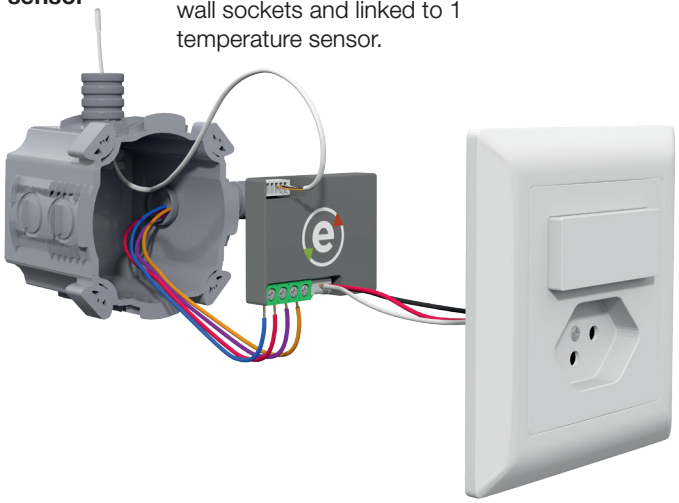
Installation includes:

> 1 electronic box connected to the meters and panel

> 1 interactive touchscreen

> 1 command module per room located behind the switches, pushbuttons and wall sockets and linked to 1 temperature sensor.

Temperature sensor



Simple design and reduced cost

No-limits design thanks to an exclusive design.
eSMART patented technology requires no extra cabling, circuit board intervention or bus line, because the products use an optimized PLC (power line online) technology that uses
existing electrical wiring with no other technical requirements. Modules, invisible to the user and connected behind the electrical switches in the cavity wall box, connect each device to the touchscreen.

A temperature sensor in each room is connected to the module for heating regulation. The system interfaces with the chosen devices in the building.

The eSMART system is highly affordable when one considers the costs of the standard products it replaces (videophones, regulation of heating and central energy monitoring) and the reduced labour costs required for its installation.

eSMART-PLC technology is adapted to construction or renovation.

Improved building management and optimised control

The screens in the apartments remain connected to the property manager for monitoring purposes

Property managers and caretakers can monitor the connected apartments remotely using a secure web platform which provides data for each property in the building.

Energy billing no longer requires a meter reading

Data on heating (kWh), water and hot-water consumption (m^3) for the whole building and individual apartments can be exported for billing management independently and at any time (intermediate accounting if an occupant leaves a property permanently). A technical alert is sent should the meter fail. This makes for a reliable billing procedure and helps avoid litigation.

Messages are sent directly to occupants on their touch screens.

Using the web platform, management and the caretakers can send messages to occupants which appear immediately on the touchscreen in the apartment. Communication has never been faster or easier.

Technical monitoring and calculation of building service charges with eSMART-web.

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Trust eSMART

eSMART first started in 2009 at the laboratories of the Swiss Federal Institute of Technology in Lausanne (EPFL). It has won several awards and has many supporters: Swisscom Innovation, Award 2014, PERL Prize of the City of Lausanne, Canton of Vaud and Swiss Confederation. The eSMART solution has received several patents. For example, Losinger-Marazzi (Bouygues Group), decided to equip the largest eco-district in French-speaking Switzerland, Eikenott in Gland.

Two-year guarantee

Every eSMART installation is guaranteed for 2 years. eSMART supervises all properties remotely in order to immediately identify any faults or defects. In most cases, this service means any problems can be resolved without causing any inconvenience to the occupant.

Swiss made, service included

Our products are designed in Switzerland and assembled in Italy to ensure availability and reliability. A customization service for supply of components for specific projects and apartments facilitates installation and commissioning. eSMART places customer satisfaction at the top of its priorities in each of the stages of project design, construction, delivery and after-sales service.

To find out more

Why wait? Contact your electrician for more information. See the eSMART website for a list of approved partners. Download and try the demo application from the iPad system at the Apple Store **eSMART demo**.

eSmart for your mobile: eSMART live available at Apple Store and Google Play. http://app.myesmart.com

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