

## SHORT GUIDE

Home and Building Automation

# BLUMOTIX

blumotix  
TOUCH YOUR WORLD





make people feel better

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Right before **I wake up**, heating is activated, the shutter opens at the scheduled time, my favourite song is playing in my room and the coffee machine turns on in the kitchen.

During **lunch break**, I check on my Smartphone if there are alerts or if everything is OK, if someone has rung at the door while I was away and I adjust the temperature because today I'll go home earlier.

It's **late afternoon**, while the natural light in the office is decreasing, the brightness of the dimming LED lamps is increasing. At home, the irrigation is activated on the balcony and in the garden, soon the outdoor lights will switch on.

At the **end of the day**, when I come home, a colourful atmosphere improves my leisure time with RGB lights and when the Home Theater activates, the ambient brightness is set up for better viewing of the TV.

Finally, the house is getting in **night mode**: at the scheduled time, outdoor lights switch on, blinds come down, temperature decreases and the alarm is activated.



**This is Building Automation.** It's the **Smart Home** world, where a touch button allows to manage the place where you live.

At the base there is a *smart* programming and control system, capable of coordinating the functioning of the different devices and creating coordinated sequences called Scenarios.

**The Scenarios** can be manually activated or scheduled at specific times of the day or activated by environmental sensors.

In this way, the house is automatically set to meet your needs: it can welcome you when you come back or shut down when you go out, it can wake you up in the morning or become a safe and "low power consumption place".

TOUCH  
YOUR  
WORLD

## BUILDING AUTOMATION - Applications

Home automation offers a wide range of application possibilities, from the domestic use to the tertiary and industrial one:

- **your home**
- **industrial buildings**
- **Hotel, tourist accommodations, B&B**
- **hospitals**
- **sport facilities**
- **historical residences**
- **niche sectors like nautical field and Motorhome.**

Last but not least, there is the possibility to realise scenarios and **customized solutions** for the elderly, people with mobility difficulties or disabled.

Here are some examples, in more detail:

- **industrial sector and offices:** light dimming on desks helps the natural light to guarantee the brightness that is required by law; automatic shutdown of the climate control system and the lights when the working day is finished.

### AREAS OF USE

- Private Homes or Residences
- Companies and Public Administration
- Hotels, B&B e Tourist Accommodations
- Historic Houses and Stately Homes

- Nautical field
- Camper and Motorhome
- Construction Enterprises
- Real Estate Agencies

## What are the advantages of using Building Automation?

**Building automation integrates technologies** relating to lighting, climate, safety, multimedia and automation, by improving the environment in terms of comfort, safety and energy saving:

**Comfort** – live to the fullest thanks to comfortable and practical solutions.

You can set up the house as you wish thanks to the activation of the already set scenario.

**Safety** – the automation systems (fire and anti-intrusion detectors, and protection from damages caused by water and gas leaks) prevent from domestic accidents and make your home safer. Furthermore, you could control the door lock of every access and the control cameras directly from Smartphone.

**Energy Saving** – the temperature control functions allow to choose the temperature of each room, depending on the time of the day: the blinds of the sun-exposed windows can come down, the air conditioner can switch off if the window is open and can monitor the consumption, avoiding energy waste and malfunction.

...and more

### Environment and Green Building

Home Automation is an efficient aid against waste: it allows to switch off and on the lights only when people are actually inside the house or when the evening comes: it allows to keep the climate on only if the windows are closed, or to irrigate only if it hasn't rained.

These and many other are the possible functions with an automated installation, and **the environment is grateful.**

Home Automation improves the place where you live.

# KNX HOME AND BUILDING AUTOMATION - in a few words

KNX is today's most advanced reference protocol in the building automation sector. It is the only worldwide recognized technology.

European Standard (EN50090) and International (ISO/IEC 14543) for home and building automation installations, KNX is today's **worldwide standard**, suitable for any home and building automation application: lighting, heating, ventilation, air-conditioning, dimming, safety systems, monitoring, alarms, energy management, measuring or Metering, home appliances, audio/video and many more applications.

One of the main KNX features is the **interoperability**, particularity that generates two fundamental advantages:

- For the buyer it allows to install devices from different manufacturers on a unique system
- For the installer it allows to use KNX in any operating field

Multiple plus advantages for those who choose to belong to the Konnex world. In particular, the **delocalised control**, guarantees the continued functioning of the devices even when a single element shuts down.

Konnex bus technology **reduces wiring complexity** compared to conventional wiring systems. Four communication infrastructures are supported:

- Twisted pair
- Power line
- RF
- Ethernet

**KNX standard was developed by KNX Association.**



BLUMOTIX – We design and produce  
KNX devices for a smart management  
of the environments.

# THE MOST COMMON QUESTION: WHAT IS THE DIFFERENCE?

## CONVENTIONAL INSTALLATION

The traditional installation controls the devices by supplying energy and closing a circuit breaker.

Conventional switches can be dangerous, due to the 230 VAC voltage

In order to have multiple controls operating on the same utility, I have to complicate the wiring.

Once the wiring and switches have been decided and installed, the control function can't be modified.

Traditional switches are electro-mechanical devices that may wear and break.

The amount of wiring required in a traditional system is much higher and the maintenance required is extremely complex due to the difficulty of understanding the installation.

An electrical control generates a **single isolated action**

## HOME AND BUILDING AUTOMATED INSTALLATION

1 The home automated system is based on a **BUS** communication infrastructure, able to transfer information between the devices.

2 The operating points are electrically safe, as they are only connected to the BUS, where there isn't 230 VAC voltage.

3 Each operating point can perform any function without any wiring complication.

4 Each function assigned to a operating point can be reprogrammed without installation changes.

5 Blumotix operating points in **capacitive touch technology** can't wear.

6 The wiring is much easier, more understandable. Each utility is connected only to its own actuator, which can be placed in the nearest electrical panel. Operating points are connected to the BUS only and they have interchangeable functions.

A domotic control generates synergy and integration between several **coordinated actions**

## BLUMOTIX s.r.l.

Blumotix designs and produces devices in KNX technology for Home and Building automation.

Choosing Blumotix means to look out for technological excellence and style and to value a brand rooted in talent, that favours technical refinement, attention to detail, user-friendliness and intuitive installation, all without giving up on beauty.



### Blumotix is KNX Member

In 2009 the company became a Member of the Konnex Association as Producer of Devices (License 160 –A0)

In the same year started a collaboration with **TelecoGroup Spa**, developing new industrial and commercial synergies that consolidated its growth.

## BLUMOTIX ACADEMY – TECHNICAL TRAINING

Blumotix organizes **training courses** dedicated to installers, electricians and system integrators aimed at acquiring the methods of installing, programming and the conditions of use of Blumotix products, according to KNX Protocol.



Blumotix, in accordance with KNX Protocol, combines high-tech and innovative **design solutions** with the unique Italian creativity.

**Blumotix Touch Panels** become real designed elements, that combine high performance automated solutions with **elegance** and ease of use.



## “Petalosa” Project

Blumotix participated in the creation of the **Petalosa House™** project, a peculiar structure with its innovative “petals” shape and with a sophisticated control system of consumption and production of energy and water.



## Restoration of “Sala Urbana” and Domotics Award

Blumotix participated in the construction of the automated system of the Sala Urbana of Accursio’s Palace in Bologna and joined the restoration works, by obtaining the Bio-architectures and domotics award.

The installation required the use of:

- KNX Miniserver for remote control of the installation, supervision and scenario variation.
- Actuators, KNX temperature and humidity sensors, programmable for any measure.
- DALI/KNX Gateway to manage lighting system.
- KNX Dimmer for 4-channels LED lights.
- Presence and lighting sensor
- 7 inch Touch Panel and graphical resolution of 800x480 px

**PREMIO DOMOTICA**   
ED ENERGIE RINNOVABILI 2014



The jury was impressed by “the exemplary capacity of the project to fit in a complex environment with architectural and historical constraints and where modern conservative restoration and environmental rehabilitation techniques have been used for a better fruition of the cultural asset”.

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Blumotix is passion. All the devices in the catalogue are designed with great attention to every detail: from the installation of a large terminal block, to the choice of the finest glasses to ensure the most sensitive touch-screens. Blumotix is Italian technology made of **creativity, innovation** and **professionalism**.

We don't spare ourselves, searching for the best performances to achieve the greatest possible integration.

Only when integration achieves harmony  
**technology transforms itself in beauty.**

*Carlo Orsi*  
Blumotix CEO

Choosing Blumotix means to look out for technological excellence and style and to value a brand rooted in talent, that favours technical refinement, attention to detail, user-friendliness and intuitive installation, all without giving up on beauty.

Blumotix is certificated **ISO 9001:2008 – Quality**

**blumotix**<sup>®</sup>  
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