



EFFICIENT AND SUSTAINABLE USE OF ENERGY IS AN URGENT NEED: BUILDINGS AND BUILDINGS CONSTRUCTION SECTORS COMBINED ARE RESPONSIBLE FOR 36% OF GLOBAL FINAL ENERGY CONSUMPTION AND NEARLY 40% OF TOTAL DIRECT AND INDIRECT CO2 EMISSIONS.



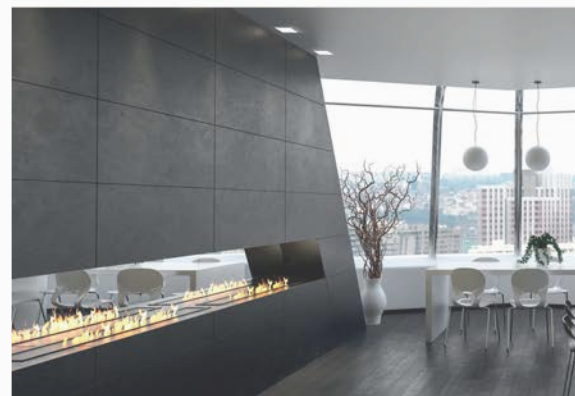
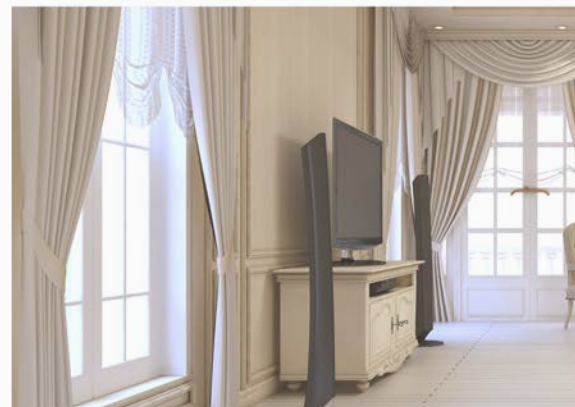
Eelectron is an Italian company that manufactures electronic devices, hardware and software on KNX and Bluetooth standard.

Its product range addresses building automation, hotel automation and home evolution sectors with a deep focus on complex environments management and experience in integrated solutions.

Eelectron's philosophy of comprehensive aesthetic design and engagement in developing highly innovative devices combines with KNX interoperability and compliance with the most stringent international quality standards.

Eelectron's experience is at the user's service for demanding clients that require training activities, assistance on products and continuous development that focuses on emerging needs and applications, energy saving and achievement of simple and efficient solutions for the benefit of occupants and managers.

Today Eelectron is leading the market by following his roots and including new technologies.



Eelectron SpA is a KNX certified training center: accredited by the KNX Association for the organization of basic and advanced courses.





Shareholder of KNX Association since 2005, Eelectron is an example of technological leadership in the application of the common European standard protocol.

The EIB/KNX technology standard is now the most widely used in the field of control for buildings with service and residential uses, covering more than 10,000 devices produced by some 130 leading manufacturers in electronics / devices, and more than 12 million nodes installed worldwide.

KNX is approved by:

- European Standard (CENELEC EN 50090, CEN EN CEN 13321-1 and EN 1332-2 “KNXnet / IP”)
- International Standard (ISO / IEC 14543-3)
- Chinese Standard (GB / Z 20965)
- U.S. Standard (ANSI / ASHRAE 135)



It allows to combine **Comfort** and **Savings**, with **long term investment protection**, freedom of service provision and constant **Technology Evolution**.

Thanks to the **KNX standard** technology, various integrations are available on the system; therefore, together with Eelectron's know-how, various technical requirements can be addressed.

KNX flexibility offers the possibility to add or reprogram new devices after installation and meets the needs of completion in renovations or extensions.



For more information see the Konnex website at:

www.konnex.org

BUILDING AUTOMATION

| Automate functions of medium-large buildings: commercial, offices, hospitals, hotels, museums, public buildings..| Offer **automatic management** and **guarantee continuous integrated control**, lowering **energy costs** and **improving efficiency** | Increase comfort and safety of the occupants and **improve quality of life**.

Reducing energy consumption not only lowers costs, but also **reduces the environmental impact of the building for the benefit of all**.



INTEGRATION



BRIGHTNESS
CONTROL



CONSTANT
DIMMING



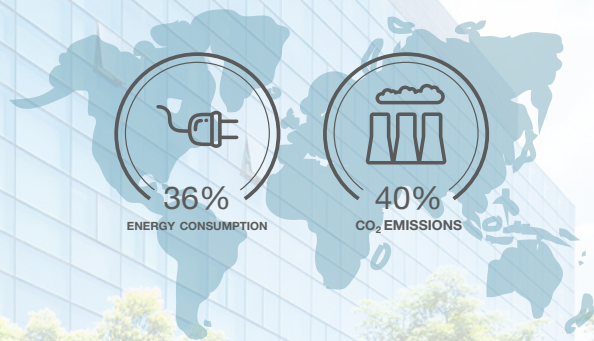
PRESENCE
DETECTION



HVAC
CONTROL



BLINDS AND
SHADES CONTROL



Efficient and sustainable use of energy is an urgent need: buildings and buildings construction sectors combined are responsible for **36% of global final energy consumption** and nearly **40% of total direct and indirect CO2 emissions**. [*]

[* source: www.iea.org]

BUILDINGS AUTOMATION

Eelectron delivers solutions and products able to implement automation systems for various kind of project, in a new building and in a renovation project.

Thanks to KNX installation versatility and to the flexibility of Bluetooth® technology, Eelectron's solutions can connect and control all the building's functions, whether it is an office building, commercial building, school, university, administrative building, production site.

Control HVAC (heating, ventilation and air conditioning), lighting and shading in order to **satisfy different needs** and **reduce costs** by controlling energy consumption in an intelligent way. All the automation functions can be managed automatically, in relation to presence, manually or centrally via supervision - also in the move via smartphone or tablet.



INTEGRATION



BRIGHTNESS CONTROL



CONSTANT DIMMING



PRESENCE DETECTION



HVAC CONTROL



BLINDS AND SHADES CONTROL



HUMAN CENTRIC LIGHTING



AIR QUALITY



ENERGY CONSUMPTION MONITORING



CONFIGURABLE SMART LOGICS



SUPERVISION



REMOTE CONTROL



BUILDING EVOLUTION

More comfort, higher energy efficiency, scalability, security and a better quality of life.

Optimizing energy efficiency in buildings means then use the energy only in the required amount and only when necessary, thanks for example to:

- ✓ Integrated control
 simple and efficient supervision and control software
- ✓ Lighting and HVAC control, presence and Illuminance related
 - lighting control based on the presence of users
 - HVAC control based on the presence of users
 - dimming of lights based on natural brightness
 - groups of lights management
- ✓ HCL (Human Centric Lighting)
 implementation of logics to manage the temperature (hot / cold) of the light, changing the color according to the time of day and the natural temperature - for the maximum benefit of the guests
- ✓ Environmental parameters detection
 - enhanced automatic shading control based on sun position tracking/season
 - CO₂/V.O.C. detection and management of air recirculation
 - humidity and sound detection for environmental optimization
- ✓ Integration in third party BMS

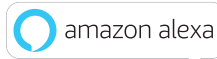




BUILDING SOLUTION

SUPERVISION

BUILDING EVOLUTION



HORIZONE

Supervision environment for intelligent buildings

Compatible with SmartPhones & Tablet iOS® or Android®,
PC & Laptop MacOS / Windows OS



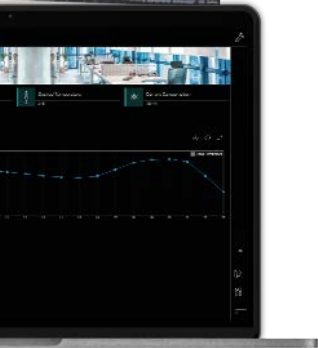
HORIZONE, available in different sizes, is the perfect solution either for small environments, like professional studios, shops, showrooms, and for extended applications in commercial malls, office buildings, sport complexes, hospitals. Dedicated **centralised monitoring** functions are also available for multi-facility corporations, as for shops or delocalised manufacturing sites. Moreover, the system is not requiring

any working PC in the installation.

Built over a reliable and powerful software architecture, HORIZONE allows users with many possibilities to create **scenarios, astronomical clocks, logics, comparators, data logging, graphs, email notifications for alarm reporting for real-time management and monitoring of the system and advanced controls with simplicity.**

The robust hardware and product construction quality are matching with product reliability, stability and immunity to disturbs and interferences.

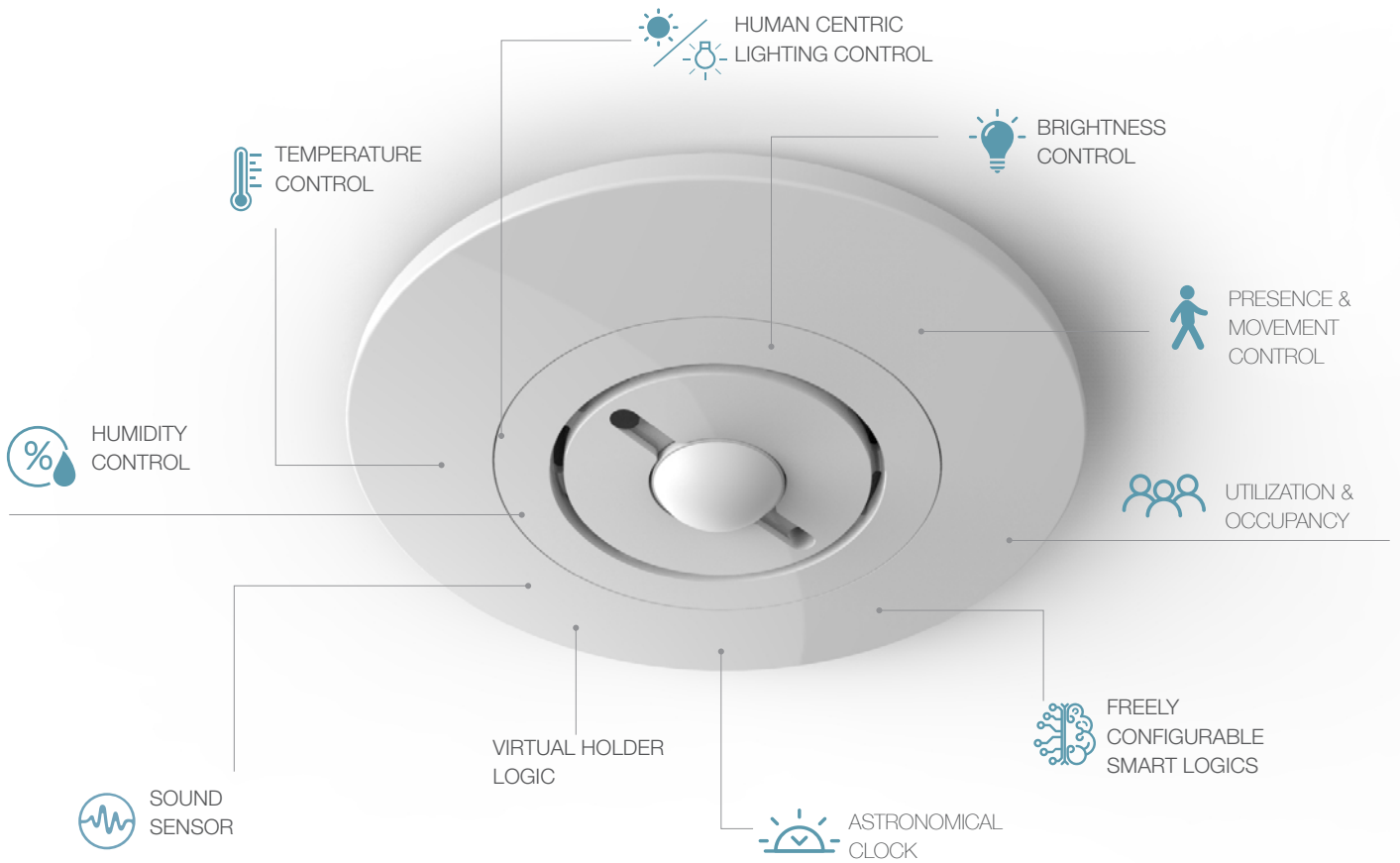
The system offers native compatibility to ModBus protocol, without using external interfaces: it is possible to integrate **signals coming from other layers, and to manage meters, control units, sensors, PLC, SCADAS** that are working in the environment over different subsystems - allowing the integration in graphical pages displaying values, status and controls to and from these subsystems.



MULTI.SENSOR KNX

INNOVATIVE, SMART, RELIABLE

The new range of sensors, combining information on presence, brightness, humidity, temperature and sound, contribute effectively to control heating, cooling, lighting, shading and room optimization complying with Leed®, Bream® and Well® requirements for buildings.

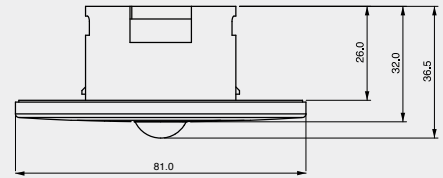


utilization range & occupancy

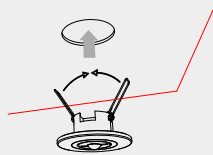
The precise detection of activity in the environments allows an anonymous analysis, both at entire building level or of individual areas, allowing reports generation, graphs, final and percentage analyzes, visualization of heat maps. Optimizing space, saving on operating costs, increasing occupant satisfaction and adapting the workplace to meet needs, increase collaboration and productivity. Receive information on the use of spaces to manage their use and destinations.

elegant flat design

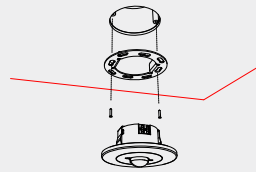
Top functionality combined with design



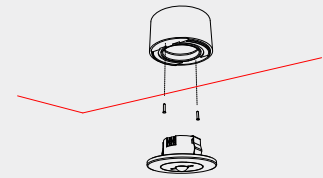
flexible installation



Ceiling installation. Stability granted by the spring clips, hidden by the ceiling mounting.



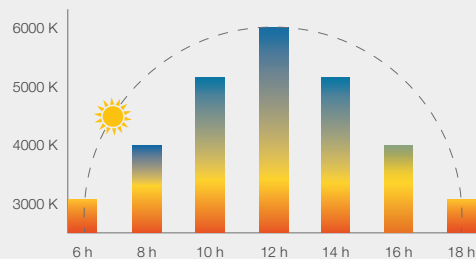
Flush-mounted with Box mounting frame.



Surface installation with the surface mounting enclosure.

lighting comfort closer to reality

thanks to the "CIRCADIAN RHYTHM" logic with which brightness and color temperature are imposed on the basis of predefined curves or on the real position of the sun during the day with respect to a terrestrial coordinate.

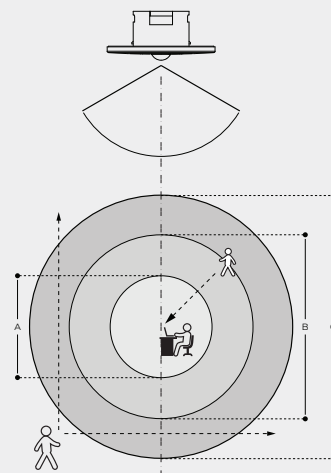


Human Centric Lighting is a lighting concept based on color variation, light intensity and proper lighting that mimics the natural daylight to enhance comfort, health, wellbeing and human performance. Multi.Sensor directly provides HCL control in different formats according to the controlled device.

complete detection

thanks to the sound sensor it is the ideal solution for rooms with parts not totally visible to the infrared sensor.

optimized for small movements



wide detection area

BASIC - STANDARD - MULTI

h	A	B	C
2.5 m	3.8 m	4.5 m	6.4 m
3.0 m	4.0 m	5.0 m	7.0 m
3.5 m	5.0 m	6.0 m	8.6 m
4.0 m	6.0 m	7.2 m	9.2 m

- A | Persona che lavora alla scrivania
- B | Persona in movimento verso il sensore
- C | Persona in movimento laterale rispetto al sensore



9025 MULTI.SENSOR CONTROLLER

EFFICIENT, PRECISE, ELEGANT

9025 Multi.Sensor Controller is a device of the 9025 series, wall-mounted; it monitors the internal environment and allows to detect temperature, humidity and CO₂ (measured directly by means of an integrated probe, not through calculations based on other sensors).

It allows the optimization of values whilst keeping energy consumption to a minimum and therefore delivering of a **healthy and efficient environment to occupants**, making the building more sustainable.

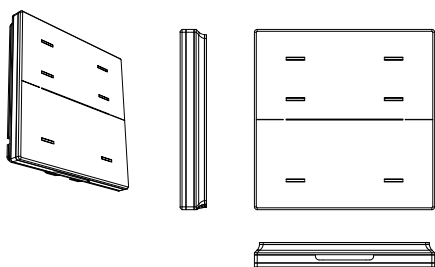


MC06A01KNX

9025 Multisensor Controller
[CO₂ – Humidity – Temperature]

HC06A01KNX

9025 Humidity – Temperature Controller



device includes 6 capacitive buttons that can be configured to manage on/off commands, dimming, shutters and venetians control, scene recall and control, objects sequences etc..

CUSTOM DESIGN

BUILDING EVOLUTION

Products and solutions, natively designed for a CUSTOM DESIGN.

A world of materials, finishes, icons to optimize and personalize the experience of people and requests in different realities.

Eelectron provides to architects and interior designer a **co-design service** to achieve seamless integration levels.

