BATHROOM ALARM RF: SIMPLE & SAFE

Inlon Engineering's solution
Ethernet network-based

Solutions for bathroom SOS, required by law in the bathrooms for the disabled and in all public facilities with shared bathrooms (schools, clinics, nursing homes, bars, offices, hotels) must obey some basic requirements: reliability, but also the certainty for those seeking relief, that his alarm was received and, at the same time, the security that the system works always and everywhere, even in the event of a power failure. In addition, often, the solutions must be installed on accommodation and / or protected houses already operative.

The solution that presents Inlon Engineering exploits the wireless technology with RF protocol EnOcean ® and, therefore, can be applied anywhere, without the need for new wiring and masonry works.

In the same time, this solution allow a complete integration with all subsystems already installed and is also at the forefront for all safety needs, both of whom called both of the listener.

EnOcean® Technology

The features of the EnOcean® technology are the following:

- Reliable radio transmission frequency of 868 MHz
- Minimum consumption (10mW) with secure transmissions
- Transmission range up to 30m in buildings and up to 300m in open space
- Absence of batteries: in many devices, a solar cell of appropriate size provides the necessary power
- Easy installation, no wiring: jobs that require a lot of installation time, as the wiring or the realization of the grooves, are no longer needed
- Flexibility: EnOcean® offers significantly more flexibility in the placement of the sensors. For this reason, even the environments with a various design typical of modern buildings have no problem
- Interoperability: In addition to various devices for the control of temperature, relative humidity, light, set point and detection of the current state, are available receivers with LONWORKS ® - KNX - Modbus - BACNET interface or RS485 with gateway functionality for superior control systems.

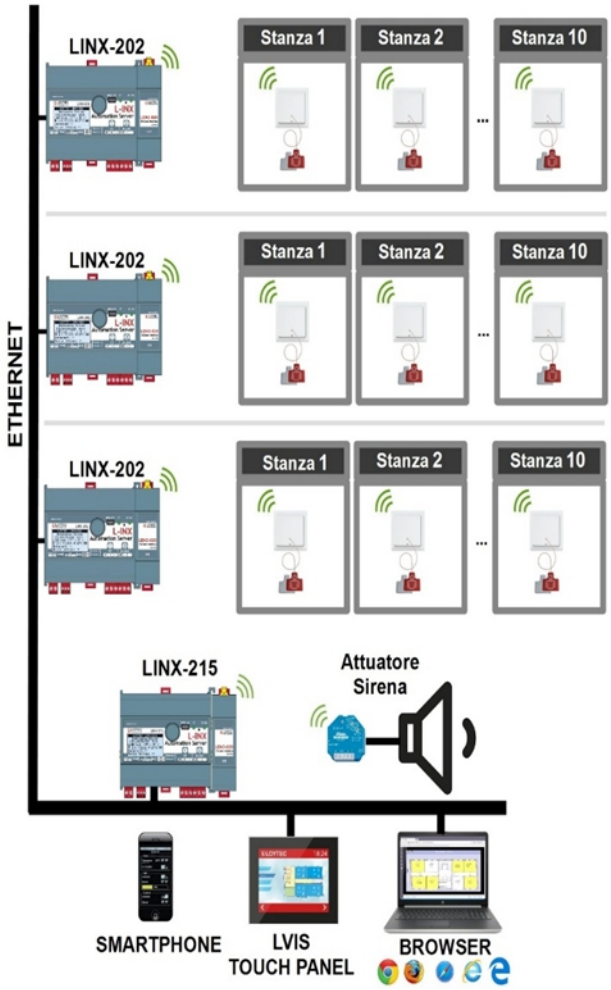
The solution

In the solution, already installed in many facilities both large and small, we have chosen to use products from ELTAKO. This allows taking advantage of a wide range of devices that cover most of the needs of civil automation: from the control and regulation of lighting (including LED) to the monitoring of consumption, the management of shutters, the fan coil control.

Eltako devices are integrated with Loytec technology products (www.loytec.com), which has the right answer to all modern building automation needs, being the European leader of products with "smart" network infrastructure.

SOLUTION PRODUCT

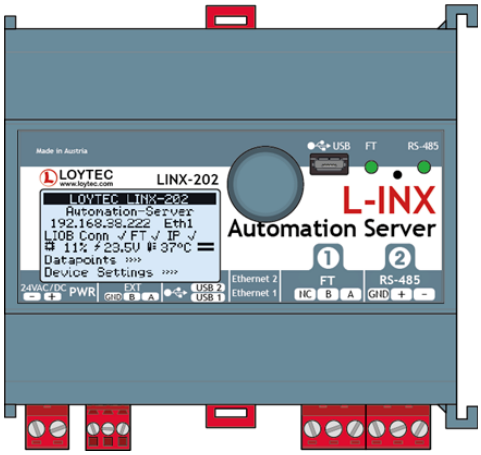
Architecture's diagram



System architecture

In this case, we have a ceiling pull in bathroom (FZS-rw) with integrated RF interface; the telegram from the alarm is collected by the LOYTEC LINX-202 gateway via the EnOcean L-ENO interface and sent, over the Ethernet network, to the reception or where visualization is required.

The data are received by the LOYTEC LINX-215 Server and can be made available to the user on the LOYTEC LVIS-3MEx Touch Panel, common browser (Mozilla Firefox, Google Chrome, Safari, etc.) as HTML 5 pages for PC, Tablet and Smartphone or on proprietary browser LOYTEC LWEB-803 dedicated for Windows systems.



LOYTEC LINX 215 server, with L-ENO interface, also allows to use the telegrams collected to manage, via the FMZ61-230 on RF actuator, a siren or other compatible optical / acoustic indicator.