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.

Signal repeaters to guarantee the required coverage on the areas to be supported are always available.

System architecture

In this case, we have a ceiling pull in bathroom (FZS-rw) with integrated RF interface; the Gateway BSC-BAP reporting the information received, via Ethernet, to the reception.

The module FMZ61-230V for the activation of the siren or other indicator optical / acoustic compatible also uses the same message.

The telegram from the alarm reset button (FFT55Q-rw) is sent through a gateway BSC-BAP up to the desk and reaches the module FMZ61-230V for silencing the alarm signal. The received data are available on the Touch Screen Operator Interface and viewable by the user optionally also on tablet/ Iphone/ Smartphone.