Wireless Fire Protection Solutions

TELEDATA®

The most advanced fire detection in the world

The most reliable wireless fire protection system

Teledata has developed a wireless detection system certified according to European reference standards at the British LPCB certification board (Loss Prevention Certification Board).

The wireless or hybrid solution can be integrated in the traditional Teledata fire protection architecture according to need. The system is extremely easy to install and cost-effective.

The range of wireless devices is as complete as the range of wired devices.
Teledata fire detection units were specifically designed to integrate the two types of devices, making their use simple and reliable.
The amount of domestic installations guarantee the highest level of reliability. They are the only solution accepted to protect historical buildings or buildings where wiring implies undesirable costs or work.

"Designing fire detection systems is complicated by the features in modern, less recent or historic buildings. Teledata Wireless and Hybrid detection systems solves this problem"

EN54-25 certified products

All wireless products come with European certificates issued by the British LPCB certification board (Loss Prevention Certification Board).

The reference standard for all devices is EN 54-25:2008. Single wireless devices also come with additional certification according to their

specific functions, similar to wired devices. Devices are equipped with dual autonomy thanks to a primary battery (with up to five-year working life) and a secondary one (up to two months).
The system detects low primary battery and indicates necessary maintenance. Maintenance is quick and easy.

European installation standards have assimilated the use of certified wireless devices and thus the use of these devices is a practice considered in fire detection system designs.
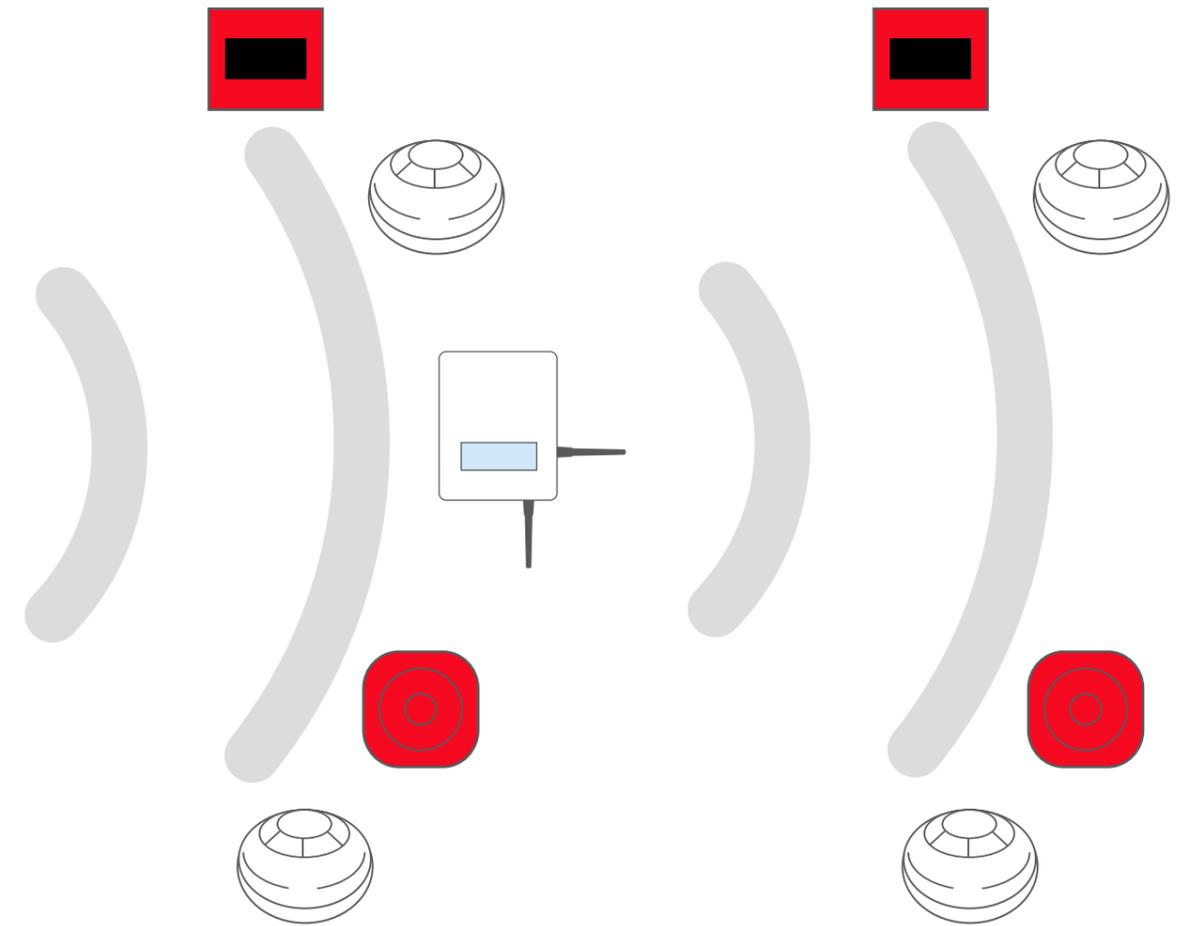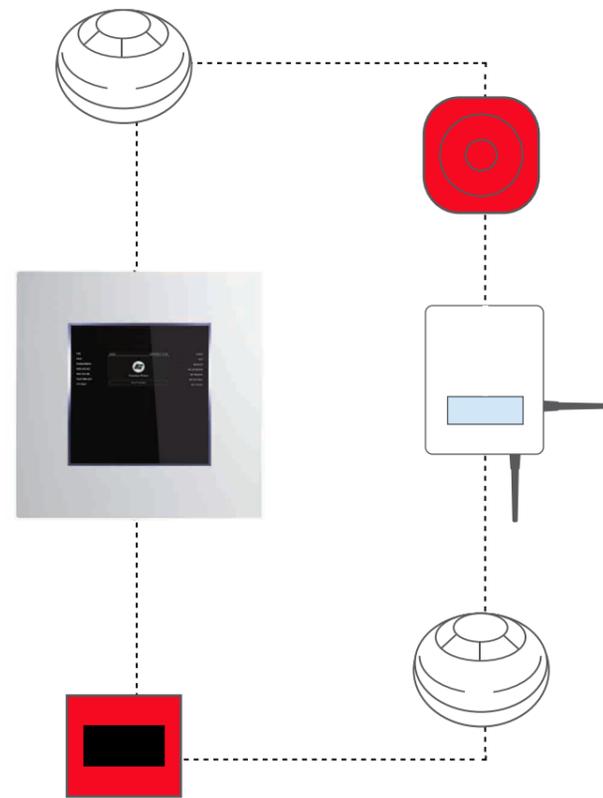
Wired, mixed or wireless system

Wireless products were designed to be integrated in the classic addressed loop fire protection architecture. A transceiver can address up to 128 wireless devices transparent to the unit.

For non Teledata systems, an interfaceable version can be requested with traditional interfaces. The solution covers 180mt in open field.

For signal reductions due to walls and closed rooms, the signal can be re-launched via appropriate repeaters which, installed in cascade, permanently re-launch the signal and thus increase the detectors' coverage area.

A test kit is available during the design phase or before constructing the system to correctly measure coverage and signal reduction in the field to permit a fully operational system to be created.

Detector architecture and functions

The detection device range is a complete range made up of three types of detectors: optic devices, thermal devices and combo devices (optic + thermal). There are different types of fire prevention manual and signal command devices: On/Off type contact actuators in different configurations or manual fire alarm buttons. Lastly, a series of visual and/or acoustic signal devices, such as sirens and/or flashers of various types, is available. Fire protection solutions have never been so complete! 360° visible three-colored LED indicates fire, fault or miss signal Highly reliable circuits with surface mount technology. Wireless t ransceiver certified by third parties as EN 54-25 running on 868 MHz frequency, approved for the European market. Detection chamber approved by third parties with dual dust trap (false alarm reduction) Optional wireless base with adjustable volume to 92dB (A). Universal base suited for all Teledata wireless sensors Optional low consumption wireless led flasher. Primary lithium battery with up to five-year working life.

Optional low consumption wireless led flasher

Highly reliable circuits with surface mount technology

360° visible three-colored LED indicates fire, fault or miss signal

Optional wireless base with adjustable volume to 92dB (A)

Wireless transceiver certified by third parties as per EN 54-25 running on 868 MHz frequency, approved for the European market

Primary lithium battery with up to five-year working life

Detection chamber approved by third parties with dual dust trap (false alarm reduction)

Universal base suited for all Teledata wireless sensors

Detector architecture and functions

The technological principle that regulates wireless device operations was implemented according to EN 54-25:2008 standards which require two-directional communications at 868-870 MHz operating frequency. Each device is specifically certified according to its function in addition to meeting these standards.
For example, the optic detector (wired or wireless) is also certified as per EN 54-7 standards.
The wireless solution implements two-directional communications that can send information on the detector's analog values and fault and alarms and program levels of sensitivity. In terms of reliability and performance, the wireless optic detector meets the same quality and performance standards as the wired detector.

Detection devices

Teledata wireless multi-mode intelligent detectors are available in three different variations: optic, thermal and combined. This way they are suited for different applications.

The patented optic and combined detector design includes a detection chamber with dual dust protection to prevent false alarms.

The thermal detector can be programmed to work as a fixed temperature detector, as a rate of rise detector or as a fixed high temperature device.

All devices come with EN 54-25 certification, primary five-year lithium battery and back-up battery.

"Installing systems in existent buildings is a significant problem from designers. Hybrid and wireless solutions resolve these problems"

Complex buildings

Building architectures and their functions affect system design and the possibility of construction work. In certain cases, construction work is impossible and prevented by site architecture.

When wiring is impossible, the only way to go is the hybrid or fully wireless route.
The use of correct devices eliminates the problems of disturbances or insufficient coverage and allows reliable and operational systems to be created.

Reliability and operations

The wireless solution was used in numerous installations and is proven reliable.

Completed systems are perfectly integrated in the fire protection unit operations of both wired and wireless devices.

This way, work is made easier for technicians and operators maintenance for maintenance technicians and operators.

Dispositivi di segnalazione wireless

The signal device range is as wide as the wired range. As for manual signal devices, the catalogue offers a signal button identical to the resettable wired one.

Furthermore, different types of signal devices are included: visual and/or acoustic, such as sirens with and without flasher (waterproof and in different colors).

There are also two types of wireless remote signal devices and detectors can also be equipped with siren bases with and without flashers. All devices come with EN 54-25 certification, primary five-year lithium battery and back-up battery.

> **"Wireless technology helps those who need equipment and those who have to create them. It is beneficial to both"**

Cost reduction

A wireless system is not just an innovative technological solution but it also provides economic benefits: it reduces installation time, material supply and labor costs.

The chance to choose between a wireless or wired detection solution lets you best optimize material and labor costs, analyzing each detection point to be installed and selecting the most cost-efficient device. Design schedules are considerably reduced.

Even the technical aspects caused by installation problems are significantly lower.
All these factors lead to more designs and faster completion.

Easy installation for the customer and installer

Choosing a wireless product makes system completion by the installation company extremely easy and fast while optimizing time.

The help of test equipment before wireless device installation reduces calibration work to a minimum and devices only need to be mounted.

Work due to wiring and the use of installation test tools are no longer necessary. Companies that install wireless systems can continue their work without any inconveniences caused by installation.
Wired system installation would interrupt business operations with obvious economic consequences. This in no longer necessary with a wireless system.

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