

Fire Detection System Series FI750



Intelligent fire detection for
a variety of applications

INTELLIGENT LOOP TECHNOLOGY

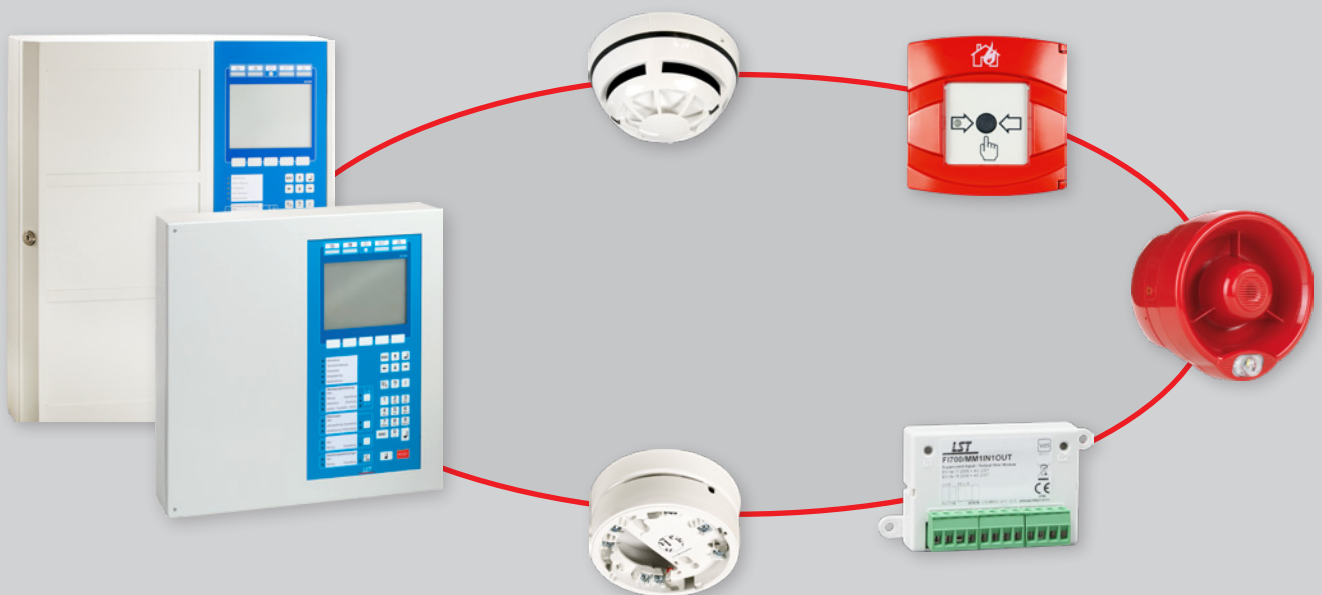
State-of-the-art fire alarm technology

The product family FI750 comprises a vast number of intelligent loop components that represent the state-of-the-art of fire alarm technology. The Series FI750 product line includes automatic fire detectors, manual call points, input and output modules, sounders and strobes as well as a complete wireless fire detection system. For each task, very well matched products are available.

Outstanding features

For the bi-directional loop communication, the digital Labor Strauss protocol is used. The intelligent data exchange with the fire detection control panel ensures permanent checking of all components and quick detection of alarm situations or faults. 240 elements can be addressed on the loop. That means that even large systems are realised with minimal cabling efforts.

The addresses of the detectors, modules and signalling devices can be programmed manually or they can be assigned automatically by the AUTO-addressing of the fire detection control panel. In addition, the order of the components on the loop is detected by means of the AUTO-mapping function. All loop components are provided with a bi-directional short circuit isolator. Thanks to that, malfunctions on the loop are reduced to a minimum.



Automatic fire detectors

Three detectors are available for automatic fire detection:

- The optical smoke detector has a new type of sensing chamber that responds to different kinds of smoke but makes it more difficult for dust and insects to reach the chamber. Several sensitivity levels allow flexible adjustment to the ambient conditions.
- The optical-thermal detector combines a smoke sensor and a heat sensor, which makes it a universally suitable detector for a variety of applications. Reliable fire detection and high immunity to deceptive alarms is achieved through the evaluation of both measured values by means of the integrated comparison of characteristics of fire.
- The heat detector can be used either
 -) as rate-of-rise detector with an alarm temperature of 58 °C or
 -) as maximum heat detector with an alarm temperature of 78 °C, which allows it to be optimally adapted to the application.

Manual call points

By means of the manual call points in the two versions according to EN 54-11/type A and EN 54-11/type B, the fire brigade or the emergency personnel can be immediately alarmed in case of danger. Manual call points are available with different colours and labellings.

They can be used for various applications – for example, to actuate extinguishing systems, to open fire dampers or to raise in-house alarms. The manual call points for extinguishing systems have been tested and certified according to EN 12094-3.



Modules for various functions

A wide range of input and output modules facilitates the monitoring of system parts or the actuation of external equipment.

As a result, a variety of devices can be integrated into the fire detection system. For more complex tasks, combi modules with several inputs and outputs are available.

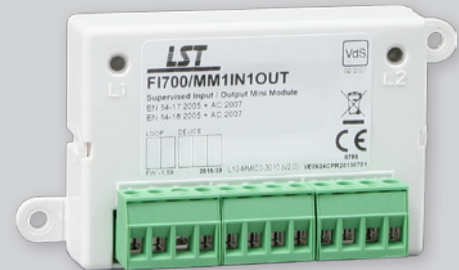
Sounders and strobes

Signalling devices acoustically or optically warn the people or make sure that the area in question is evacuated. The Series FI750 comprises sounders with several tone types, strobes and combined signalling devices. For use under harsh environmental conditions, sounders and strobes with protection class IP65 can be supplied.

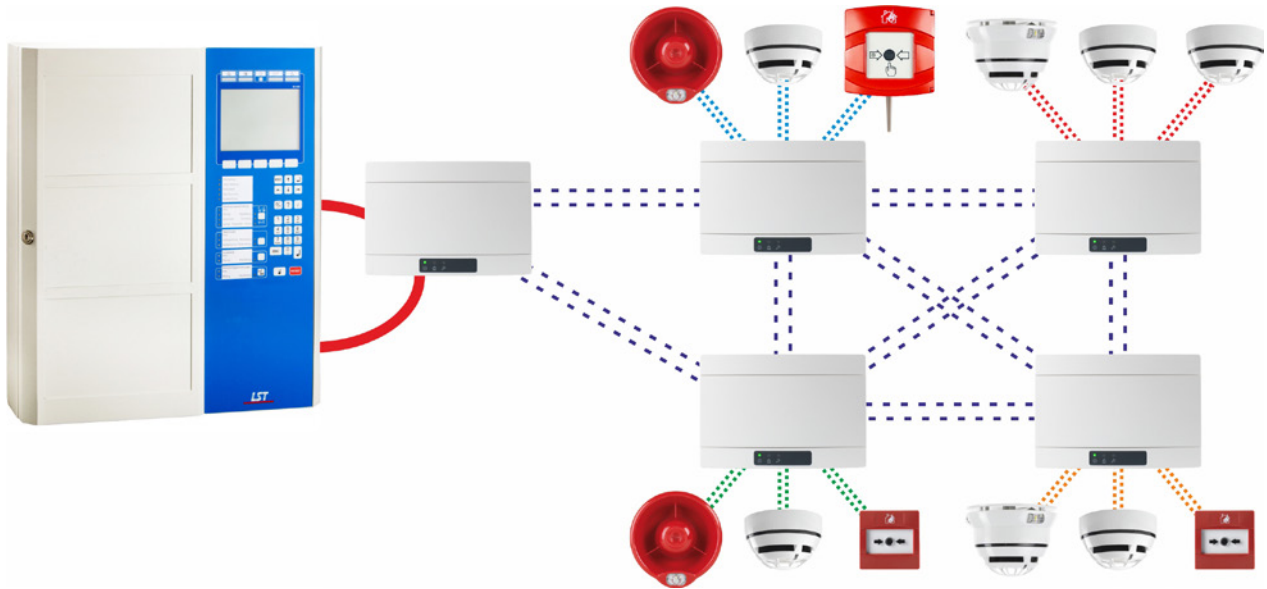
The fire detection control panel can control tone and sound level of a sounder through the loop protocol. In this way it is possible to acoustically distinguish, for example, between alarming and evacuation. The automatic synchronisation ensures that the warning tone is uniform if several sounders are active within one area.

Certified quality

The fire detectors, modules and signalling devices of Series FI750 have been tested and certified by LPCB, BSI or VdS, as required by the Construction Products Regulation CPR, according to the family of standards EN 54.



WIRELESS FIRE DETECTION SYSTEM FI750/RF



In some buildings, cabling the detectors is not possible because of the architectural, technical or organisational situation, it affects the visual appearance or it involves high costs and therefore is uneconomical. The wireless fire detection system FI750/RF is ideally suited for later integration into the installation of the building. Thanks to the easy linking to the fire detection control panel, it is also possible to equip only individual areas of a system with radio detectors, if necessary.

Historical buildings, churches, museums and modern architecture are among the typical applications of a wireless fire detection system. In addition, it is also suitable for temporarily monitored areas such as construction sites, or for buildings where the ongoing operation cannot be interrupted by installation work.



NEW TECHNOLOGY

The wireless fire detection system FI750/RF combines the latest developments in the field of fire alarm technology, a reliable radio transmission technology and an attractive design.

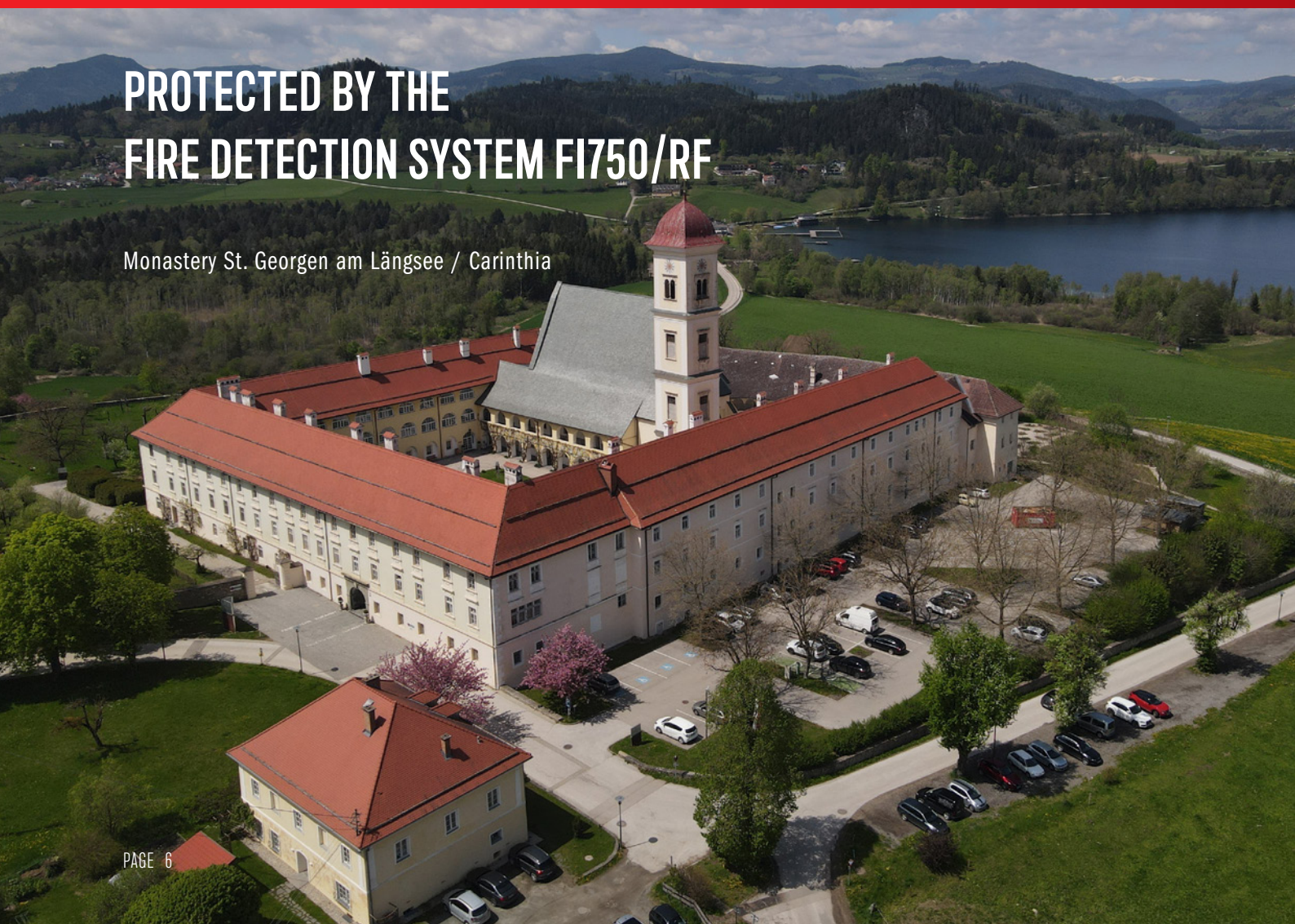
Thanks to pioneering technologies, completely new possibilities in the field of fire detection present itself, and, as a result, an effective combination between architectural requirements and modern fire alarm technology is created.

The wireless fire detection system offers the following outstanding benefits:

- Mesh technology with 60 communication channels for avoiding channel collisions
- redundant radio transmission with automatic switching to the alternative channel
- extensive RF systems with up to 127 wireless devices per RF interface can be created
- range can be increased through networking with up to 15 expanders
- low maintenance costs thanks to long battery life – up to 10 years for detectors and 5 years for sounders and strobes
- user-friendly software for installation, commissioning and maintenance
- all products have been certified according to EN 54

PROTECTED BY THE FIRE DETECTION SYSTEM FI750/RF

Monastery St. Georgen am Längsee / Carinthia



EXTENSIVE PRODUCT FAMILY

The bi-directional communication between the fire detection control panel and the wireless devices is converted by an RF interface. The loop RF interface is linked to the detector loop and can handle up to 127 wireless devices.

The secure digital RF protocol allows transmission of analog measured values and controlling functions of the wireless devices. For systems in conventional technology, there is also an RF interface with relay outputs.

The radio transmission range can be increased by means of the RF expander. By cascading expanders, a multi-stage RF system can be created which can cover distances of more than 4 kilometres.

The wide product range of the Series FI750/RF includes the following wireless devices:

- an optical smoke detector with 3 sensitivity levels
- a multisensor detector with 3 sensitivity levels and a temperature sensor according to EN 54-5 Class A1R or Class B
- a thermal detector according to EN 54-5 Class A1R or Class B
- manual call points according to EN 54-11/type A and EN 54-11/type B
- input and output modules
- sounders and combined sounder-strobes for wall mounting
- sounders and combined sounder-strobes with integrated detector base
- a remote indicator for the indication of the detector activation



The logo for LST, consisting of the letters 'LST' in a bold, blue, sans-serif font with horizontal lines through the letters, positioned above a thick red horizontal bar.The logo for MEP, consisting of the letters 'MEP' in a bold, blue, sans-serif font with horizontal lines through the letters, positioned above a thick red horizontal bar.

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