

Case Study

# HONEYWELL SUPPLIES ADVANCED FIRE DETECTION SYSTEM FOR HISTORIC GREAT MARKET HALL, BUDAPEST



**The Great Market Hall in Budapest is one of the city’s most distinctive sights. Built in 1897, the historic building is still in use as a lively market place, visited by thousands of residents and tourists every day. To ensure the safety of the visitors, vendors and market stalls, as well as protect the building’s structure, Honeywell installed an advanced fire detection solution during recent electrical renovations.**

## Background

Budapest’s Great Market Hall is built on an area of 10,000 square meters and features a basement, a ground floor and an upper floor, which is part of the building’s steel roof structure. It is very popular among tourists and locals, hosting concerts, shows and food tasting events on special occasions.



## Challenge

The market hall’s neo-Gothic design, with its elaborate brick facade and steel skeleton-frame, gives the building a highly characteristic appearance. Therefore, installing a state-of-the-art fire detection solution without disturbing its unique historic character was a key factor.

There were also a number of architectural challenges. With an interior height of over 10 meters, installation of the pipe system and smoke detectors required a bespoke technical solution. Moreover, as the hall was built more than a century ago, it does not have an air conditioning or heating system. As a result, managing fire detection under varying temperatures throughout the year required considerable expertise in the careful adjustment of all components and software.

*The Great Market Hall is the largest and oldest of several historic market buildings spread across Hungary’s capital, Budapest.*

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## Product details

FAAST LT (now replaced by FAAST LT-200) incorporates high sensitivity smoke sensors, ultrasonic flow sensors and is IP65 rated to protect vulnerable components.

FlexES Control panels offer a modular hardware and software solution, enabling a fire alarm system to be customized with additional hardware modules or software upgrades according to requirements.

WINMAGplus allows the superior visualization, control and management of building safety solutions, in a single computer interface. The features and functionalities are continuously being developed to improve integration with other Life Safety products from ESSER by Honeywell.

## Benefits

- **Reliable and early fire and smoke detection**
- **FlexES Control Panels are easy to assemble, replace and supplement according to the plug-and-play principle – covering all present and future needs with a perfectly coordinated and expandable platform**
- **WINMAGplus users benefit from the multifunctional use of individual components which reduces material and maintenance costs**

## For more information

To learn more about Honeywell products and solutions, visit [www.hls-austria.com](http://www.hls-austria.com) or contact your Honeywell Account Manager or System Integrator.

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## Solution

During a major technical refurbishment of Budapest’s Great Market Hall, Honeywell supplied a bespoke ESSER by Honeywell fire alarm system to protect the building, incorporating Fire Alarm Aspiration Sensing Technology® (FAAST). Overall, 23 units of FAAST LT aspirating smoke detectors were installed, providing discrete early warning functionality for the fire alarm system. By ensuring highly accurate smoke detection, FAAST can detect fires in their very early stages, preventing false alarms even under challenging conditions. The aspirating pipes were perfectly blended with the Great Market Hall’s interior design by fitting them to the ceiling construction in an almost invisible way. Unlike other fire detection solutions, the aspirating system proved immune to nuisance alarms caused by birds, dust, direct sunlight and insects, thanks to its remote sensors and efficient aspirated air filters.

These highly sophisticated smoke detectors are complemented by 1100 OT and O<sup>2</sup>T multisensor fire detectors with optical smoke sensors, as well as additional heat detector sensors. As part of the IQ8Quad product series from ESSER by Honeywell, these devices offer intelligent signal analysis and individual detector sensitivity settings, allowing adjustments in line with installation location and ambient conditions.

The fire alarm system is managed by a FlexES Control panel, which is not only user-friendly but also highly efficient. The incorporation of Hazard Management System WINMAGplus further increases usability by displaying all safety systems in the building in their actual location, as well as allowing each one to be controlled individually.

## Results

Honeywell’s installation of a new fire alarm system played an important role in the preservation of Budapest’s Great Market Hall. The building is both part of Budapest’s historic city landscape and a place where Hungary’s cultural heritage and local cuisine can be experienced first-hand. By identifying the unique project requirements with great care and experience, the refurbishment was completed successfully.