Reference State Health Center of the Hungarian Ministry of Defense

### Compatible system solution for Hungary's largest state health center

The former military hospital in the 13th district in Budapest has now become a modern state health center for the general public. The Hungarian clinic has a total of 433 beds in approx. 300 rooms and is known as the country's most important health institution.

The building was constructed at the beginning of the 20th century and has had three additional buildings added to it over the years. In 2006, the clinic was renovated and equipped with safety and communication systems by ESSER and Ackermann clino.
In the summer of 2007, the system was expanded once again. The Hungarian installer Pentolt Kft. was supported by Honeywell Life Safety Austria in the planning and execution of the project and thus realized the largest fire detection and call system project in Hungary to date.

ACKERMANN clino
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The task

IQ8Quad fire detector and
clino com 21 room terminal
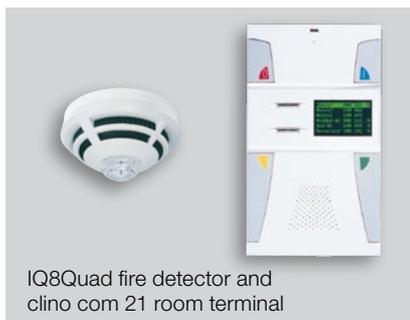
During the installation of the call and fire protection system in this renowned clinic, the highest standards of comfort and safety had to be met. The buildings, which are spatially separated from each other, sometimes by 20 to 40 m long corridors, were to be equipped with a single compatible system during the initial installation as well as during the expansion one year later. At the same time, a solution needed to be found which could be realized without causing problems within the historical walls of the building. The clinic management wanted a complete concept which was modern, versatile and expandable from one source with Hungarian user interfaces.

The solution

The fire protection concept for the three renovated buildings is based on the installation of a large network with:

- Two fire alarm control panels 8008
- Eight IQ8Control fire alarm control panels
- 73 esserbus-PLus loops
- Approx. 4,500 smoke detectors

In a dangerous situation, information from the fire detection technology is passed on to the Ackermann clino system via the WINMAGplus management system. This coupling facilitates an indication of the fire location via the call system, for example in duty rooms.

In the course of the first phase of modernization, two data management processors (DMP) connected with modern optical waveguides had been installed for controlling the clino com 21 call system. With the expansion in the following year, a third DMP was added. The existing star-shaped cable runs posed a further technical challenge. They required a complete redesign in ring form, which was carried out successfully.

The current project contains 433 beds. In addition, a further system expansion is planned:

- clino com 21 for an additional 400 beds
- An additional 4,000 fire detectors

The benefits

The fire alarm system and the call system were connected in such a way that fire is also indicated on the call system displays. In order to prevent misunderstandings, the text is displayed in the Hungarian language, as requested by the client. Thus personnel can immediately initiate first measures of firefighting and/or an arranged evacuation via the compatibility of the systems – even while the fire brigade is being alarmed via a direct line.
The clino com 21 system was considered especially suitable for use in this historical building, since the interface cable used POF technology (polymer optical fibre) and enabled all services to be installed there with minimal wiring expenditure in the loop technology.

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