University of Munich Clinic Reference

Centrally controlled safety: Cross-site fire protection in the clinical center of the University of Munich

There are 28 clinics, 9 institutes and 6 departments under the roof of the Munich University clinical center, put together from all medical departments. Here, more than 9,000 employees look after about 90,000 inpatients and 400,000 outpatients, per year. The university clinic facilities are distributed over the locations of Munich-Gross-hadern and the city center of Munich. The clinic campus encompasses a whole quarter, between Sendlinger Tor and Goethe Platz, in the heart of Munich. The clinic locations were organizationally merged in 1999.

The fire protection concept was successively adapted in the course of the fusion. The operator contracted Max Schuhbauer Fernmeldetechnik GmbH for the planning of a sustainable solution which would satisfy all safety demands and which could be administered across all locations. Products of the brand ESSER by Honeywell were used for this.

ESSER

by Honeywell

The task

The superordinate concept of the clinic center's structure and design is growth-oriented and takes into account local requirements. This adjustment also covers the fire protection of this vast area.
The distribution of the clinics across numerous properties requires a homogeneous, centrally controlled and flexible fire alarm system.

The replacement of the existing old systems was to occur successively in the course of structural renovation measures. In order to fulfill the high fire protection requirements of clinics and hospitals, the selection of reliable and false alarm-proof detector and control panel technology was especially necessary in this case. Additionally, due to the historical construction and substance, the requirements for historically protected buildings had to be taken into consideration for some of the objects. With regard to already planned new constructions and reconstructions of the university clinic, the fire protection system should also be flexibly extendable.

The solution

The installed ESSER fire alarm system is characterized by an implementation concept for properties with several individual locations. In the Munich University Clinic, three 8000 M and three IQ8Control M fire alarm control panels have thus far been connected through a total of eleven esserbus loops via the in-house fiber optical network in a fail-safe manner. The fire protection in the patient rooms is ensured with 268 false alarm-proof IQ8Quad O^2T multicriterion detectors—as well as with corresponding manual call points in the halls and stairwells. The ESSER fire detectors were installed cable-free in historically protected building areas with the aid of wireless transponders and radio bases. The WINMAGplus management system is the heart and core of this installation which is networked across different departments. It visualizes all building areas of the extensive clinic area by means of their own layout plans and thus enables control of the complex installation via a single user interface.

IQ8Control M Fire Alarm Control Panel

The benefits

The networking via WINMAGplus facilitates monitoring of all clinic buildings from one central place. One single employee can identify each individual detector across all locations, acknowledge incoming reports and switch detector zones on and off. In case of an emergency, a direct relaying of alarms to the local fire brigade occurs; at the same time, technical service employees of the building are directly informed via terminal devices. In this way, not only are the administration costs greatly reduced, but the reaction time during fires is also shortened. Furthermore, WINMAGplus facilitates the importing of Auto-CAD graphics. Thus, already existing building plans of the university clinic could be used without large inputting costs.

The use of wireless technology takes the requirements of monument conservation found in some clinic constructions into account. Wirelessly installed fire detectors are optically perfectly integrated into the historical ambience. Thus a comprehensive and complete fire protection concept was realized for this demanding project.

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