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Medical education in an environment offering optimized safety

Academy for Medical Training and Simulation, Lucerne, Switzerland

The Academy for Medical Training and Simulation (AMTS) in Lucerne, provides continuing medical education for physicians from all over Europe. The high-tech center offers state-of-the-art facilities and equipment for surgery and emergency management courses.

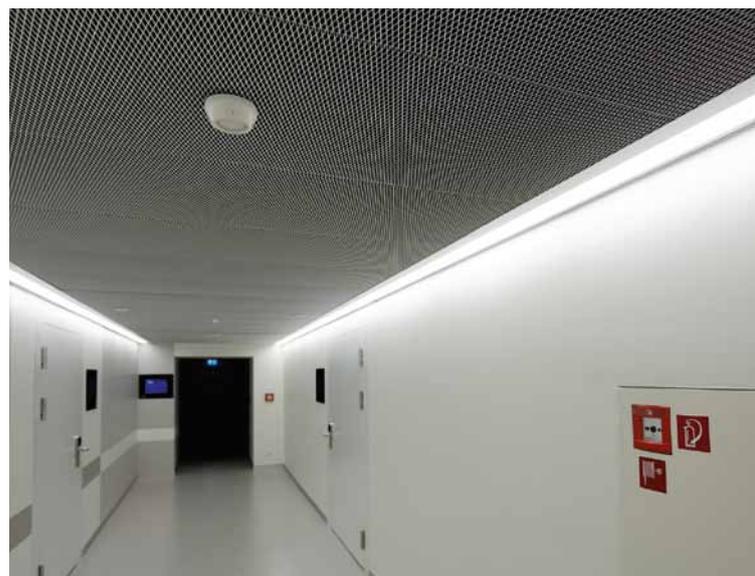
The building

The AMTS Lucerne is a leading center for medical training and process simulation in the areas of musculoskeletal surgery and emergency medicine. A high-tech center encompassing 2,500 square meters on four floors offers state-of-the-art facilities and equipment for surgery and emergency management courses. A fully equipped operating room, workshop rooms, a shock room with a CT simulator, and a complete ICU are available for practical exercises. "There is no comparable institution in Europe which allows the entire chain of treatment to be practiced," explains Dr. med. Roger Zobrist, surgeon as well as co-founder and CEO of AMTS: "In surgery and medicine, the requirements for training, continuing education, science, and networking have changed dramatically. The academy was founded to address these challenges."

The challenge

The Academy for Medical Training and Simulation (AMTS) in Lucerne requires uninterrupted operation of its training and simulation center without compromising the safety of visitors and employees and the security of the infrastructure. Protection with unmatched reliability which supports all functions crucial to AMTS was needed. AMTS' investments have to be protected with superior detector technology which avoids false alarms, fire control panels with intuitive user interfaces, intelligent signal processing, and full network connectivity. Further important criteria were the flexibility of the system and the integration of the protection system into the existing monitoring system. Fire safety has top priority. "We have a variety of rooms with sensitive and expensive equipment that require extra protection. For this reason, we chose a fire safety solution from Siemens," says CEO Roger Zobrist.

Answers for infrastructure.



The solution

AMTS uses a Sinteso™ fire protection system from Siemens to protect people and assets. It is based on a modular and future-proof technology platform that employs detectors with unparalleled immunity to deception. The Sinteso FC2060 fire control panel deployed at AMTS has four loops which support up to 512 field devices. In addition, it can be upgraded with additional modules to support up to 1,512 field devices. Existing detectors can be added quickly thanks to auto configuration and auto addressing; existing controls of fire protection doors, extinguishing systems, elevators, and ventilation systems can be integrated easily via I/O modules. In applications characterized by a medium level of risk and a moderate potential for deceptive phenomena, as is the case at AMTS in Lucerne, the high-performance Sinteso C-LINE detectors come into their own. Approximately 400 intelligent neural fire detectors distributed throughout the entire Academy detect and analyze optical and thermal signals separately.

The behavior of the detectors is set according to the environmental conditions to be expected by selecting the appropriate parameter set (with preprogrammed detection algorithms). This ensures detection of smoldering fires as well as open fires involving solid materials and liquids while guaranteeing a high level of reliability and immunity to deception. In addition, 34 manual call points are available to manually trigger an alarm. The addressed technology in a field device network (FDnet) provides precise location information together with fast and fail-safe communication between the detectors and the fire control panel. The AMTS facilities are equipped not only with state-of-the-art medical technology but also with the latest generation of building technology. "The Sinteso fire protection system is functional, easy to use, and meets our requirements the best," adds CEO Roger Zobrist.

Highlights

- Sinteso fire protection system from Siemens provides protection with unmatched reliability and supports all functions crucial to AMTS
- Superior detector technology which avoids false alarms
- Fire control panels with intuitive user interfaces, intelligent signal processing, and full network connectivity
- Flexibility and virtually unlimited expandability, helps to protect AMTS' investments