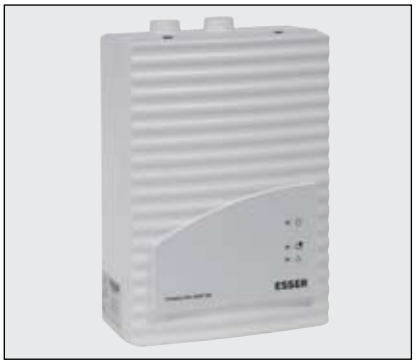
Kunsthalle Weishaupt Reference

**“Simply see”—
one of the significant private collections of contemporary art in Germany was opened under this leitmotif in November 2007: The art museum Kunsthalle Weishaupt.**

An impressive, 91 meter long building with its large glass facade was created within the framework of the Ulmer inner-city redevelopment. On an exhibition area of 1,270 square meters, the visitor is presented with about 80 works of art, spanning the period from the second half of the 20th century up to today. This represents the highlights of the collection by entrepreneur and patron Siegfried Weishaupt. In order to underline the planned close cooperation of the Kunsthalle Weishaupt with the neighboring Ulmer Museum, both buildings are connected to each other via a glass walkway.

ESSER
by Honeywell

The task



TITANUS Pro Sens EB aspirating smoke system

Elektro Rehm GmbH, Oggelshausen was the company commissioned with the conceptual design of the VdS-approved fire protection system— based on expert opinion given earlier. The aim was to protect the irreplaceable exhibits in the up to 8.5 meter high rooms from destruction by fire and at the same time to develop a safety concept which also takes the architectural demands into consideration.

In addition to the showrooms, all other areas of the building were to be monitored as well, such as the jeweler's and the café on the ground floor, the offices on top of the art gallery's roof as well as the non-public rooms.

The implementation

In order to follow the architect's wish for a discreet fire protection system, pipes with an overall length of 3,500 meters were mounted in the false ceilings— tiny drill holes in the ceiling facilitate the suction of room air.
The pipes lead to 49 aspirating smoke detectors (TITANUS Pro Sens EB and LRS 100) for the earliest possible detection of fire formation. With this type of detector, the room air is suctioned via a pipe system and led into a detection chamber. Furthermore, there are four IQ8Quad OT^{blue} air duct detectors mounted on the air duct. The IQ8Quad OT^{blue} detector works with a blue LED instead of a red one and thus detects even the smallest particles due to the shorter optical wavelength. This technology facilitates the omitting of a radioactive compound and can be simply disposed of at a low cost.

In case any damage should occur, the control functions listed in a fire case matrix are activated. In this object, an excess pressure desmoking (by Neuberger Automatisierungstechnik) is actuated through the fire alarm control panel. The upward ventilator is turned off and the exhaust air installation is turned up to 100% fully automatic. Additionally, defined windows are put up as used air openings in order to transport the smoke outwards.

There were 117 IQ8Quad O^{2}T optical smoke detectors and four IQ8Quad rate-of-rise heat detectors installed in the adjacent rooms and non-public areas. The IQ8Quad O^{2}T is characterized by its exceptional 2-angle detection technology which considerably reduces the risk of false alarms.

A further activation mechanism in the case of damage is provided by 13 IQ8MCPs. An alarm well-suited to the fire protection concept occurs through 21 IQ8Alarm signaling devices, 18 of which warn visitors and employees through their integrated sounders. The IQ8Alarm is completely loop-powered and thus facilitates a reduction in costs for cabling and installation. Thus it is more economical and more secure than any classical signal device. This safeguarding solution is ESSER's contribution to the protection of valuable objects of art.

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