Better Solutions in Fire Protection

Conspicuously discreet

Aesthetics and fire protection in architecture

WAGNER®

New creative freedom for architects:

Innovative fire protection technology creates greater design flexibility

The ideas come first: the architect sketches his thoughts onto paper. As planning progresses, the architects ideas often clash with restrictive boundaries imposed by building regulations. Detraction from ideas are part of an architects day-to-day life while striving to combine life safety and property protection technologies with aesthetically pleasing architectural design.

Architects, planners and construction engineers charged with the design of fire detection systems more often select point type smoke detectors sited under the ceiling. Such systems are passive, meaning smoke must first reach the detector before detection can be achieved and the alarm sounded. Knowing that in the event of a fire, every second counts, this type of fire detection strategy can prove to be very risky.

The inclusion of conventional fire detection devices together with all the other visible elements on the ceiling (including lamps, air conditioners, speakers, etc) can lead to a very unattractive effect. This situation can be alleviated by integrating the smoke detection systems flush into the suspended ceiling. Discreet air sampling smoke detection systems from WAGNER are almost invisible to the naked eye. In comparison with passive, point type smoke detectors the active, air sampling smoke detection systems of the **TITANUS®** family provide a much higher degree of detection sensitivity. They can even be installed so as to allow for easy access.

With the High-Tech **TITANUS®** family, earliest possible detection of fire related smoke particles is guaranteed, while at the same time, a perfect aesthetical perception is maintained. Regardless of whether in buildings of modern architecture or in historical archives, libraries or museums, the air sampling systems network of detection points in the ceiling remain visible only to those who know they are there! **TITANUS®** provides safety, with the appearance of an integral component of the building. The idea becomes an aesthetic solution - without restrictions.

Pro-aesthetic: Large, open ceiling areas create a generous sense of space. It is important that this aesthetically pleasing feature is not impaired by surface-mounted smoke detectors.

WAGNER® and TITANUS® are registered Trade Marks.

The Wallraff-Reichartz Museum dates back to the bequest of the scholar and collector Friedrich Franz Wallraff (1748 - 1824). It is the oldest museum in Cologne. WAGNER Air sampling smoke detection systems were installed to protect the exhibited treasures. Recessed cleverly into the ceiling construction, they remain hidden from the eyes of visitors. Patrons of the arts are not distracted by aesthetic blemishes whilst enjoying the exhibits, but can concentrate completely on the fine display of fascinating art.

Highest degree of safety – almost invisible

One air sampling smoke detection system can replace up to 24 conventional smoke detectors: Small air inlet orifices are connected via flexible tubing to a main pipe network which has been mounted in the ceiling void. All that remains visible is a small cover of only 23 mm in diameter that has been punched with a 3 - 7 mm inlet hole (see round picture). This cover is recessed flush into the ceiling construction and can be adapted to suit almost any colour scheme.

aesthetics & function

Some important advantages of air sampling smoke detection systems

- Easy access to serviceable parts, low maintenance requirements.
- No architectural design restrictions: ceilings remain free of unnecessary distracting elements.
- Dependable fire detection through active air sampling methodology.
- Reduction of other building fire protection requirements due to the higher degree of safety achieved with air sampling smoke detection systems, generating a reduction in overall cost.
- Each single air sampling point can replace a conventional smoke detector.
- Automatic monitoring for blockages or ruptures to the pipe system guarantees reliable operation.
- The discreet, professional solution can also be used in lift shafts, floor & ceiling voids, computer rooms, cold & deep-freeze as well as high-rack storage facilities.

Air sampling smoke detection systems from WAGNER protect invaluable works of art created by world-famous artists such as Gustav Klimt, Oskar Kokoschka and Egon Schiele by providing earliest possible detection of any fire development. The austrian "Vienna museum complex" is one of the ten largest cultural venues in the world.

The Artgallery Graz, Austria, is an exhibition hall designed for international exhibitions of multidisciplinary modern and contemporary art. It serves exclusively for the presentation and mediation of a wide range of artistic productions. Air sampling smoke detection systems from WAGNER protect the valuable art collection against fire.

The historical buildings of the Swiss parliament „Staenderat“ listed under the heritage building protection act, was completed in the year 1902. Air sampling smoke detection systems from WAGNER, installed discreetly throughout this monument of national heritage, ensure the earliest possible detection of fire.

Conspicuously discreet – wherever quality is demanded

Four major museums under a single roof - the "Pinakothek der Moderne", Munich, Germany, exhibits art oft the 21st century. The museums fire doors are protected by air sampling smoke detection systems from WAGNER to ensure the highest level of protection by earliest control of compartmentation and fire confinement measures.

The famous GLA Building on London’s South Bank is a landmark in many ways. As a working building it houses the London Assembly and the offices of the Mayor. Aesthetics were a key feature of this Foster & Partner constructed building. Air sampling smoke detection systems were designed and installed by WAGNER.

Applied and approved worldwide

WAGNER's fire protection solutions are comprehensive individually engineered systems, tailored to meet the clients exact needs. The underlying principle of all WAGNER solutions is innovation.

As a systems house, WAGNER has attained wide regard for it's competence in fire suppression and fire detection engineering.

Surpassing all past achievements WAGNER now presents the fire protection industry with the ultimate goal, – Real Fire Prevention – creating environments in which a fire cannot occur, yet remaining safe for people to enter.

Insisting on environmentally friendly fire protection solutions, WAGNER encourages the use of inert gases such as Nitrogen and Argon in its fire suppression concepts. This policy greatly reduces any environmental impact caused by chemical extinguishing agents.

For clients with very special application needs, Carbon Dioxide or the chemical agent FM200™ may be chosen by the WAGNER Fire Engineers to provide the right solution.

The earliest possible detection of a fire is paramount so WAGNER provides the largest range of industrial and commercial „Ingelligent Air Sampling Detection Technology" available. This wide range produces enhanced monitoring solutions for every type of room or enclosure, as well as production and process critical equipment.

To enable central management of business critical infra structure, WAGNER's Network Based Fire Management System brings complex electronic and mechanical fire protection sub-systems together, offering a complete overview and master-control to one single security command post.

Complete Solutions from WAGNER, designed to fulfil every clients specific requirements, enveloping value engineering and the best available technology. – Getting to the heart of it – The solid foundation on which WAGNER's reputation stands.

WAGNER Alarm- und Sicherungssysteme GmbH
Germany, Headquarters
(+49) 0511/97383-281

WAGNER in Austria
(+43) 02262/64262-0

WAGNER in Great Britain
(+44) 0870/3336116

WAGNER in The Netherlands
(+31) 030/2200264

WAGNER in U.A.E. (Dubai)
(+971) 04/3097901

WAGNER in Beijing
(+86) 10/65900300

WAGNER in Shenzhen
(+86) 755/82128062

info@wagner-worldwide.com
www.wagner-worldwide.com

Art.-No. 68-30-0802 • Date 02/04 • Information subject to change without notice. Photos ⇒ Cover: Jens Weber (3); Officeaesthetic: Wagner GmbH (3); Kunsthaus Graz: Harry Schiffer; Münchner Pinakothek der Moderne: Jens Weber; Museum: Wallraf-Richartz-Museum, RBA Köln; House of Parliament Bern: Schweizer Parlamentsdienste; Wiener MuseumsQuartier: Rupert Steiner.

WAGNER®