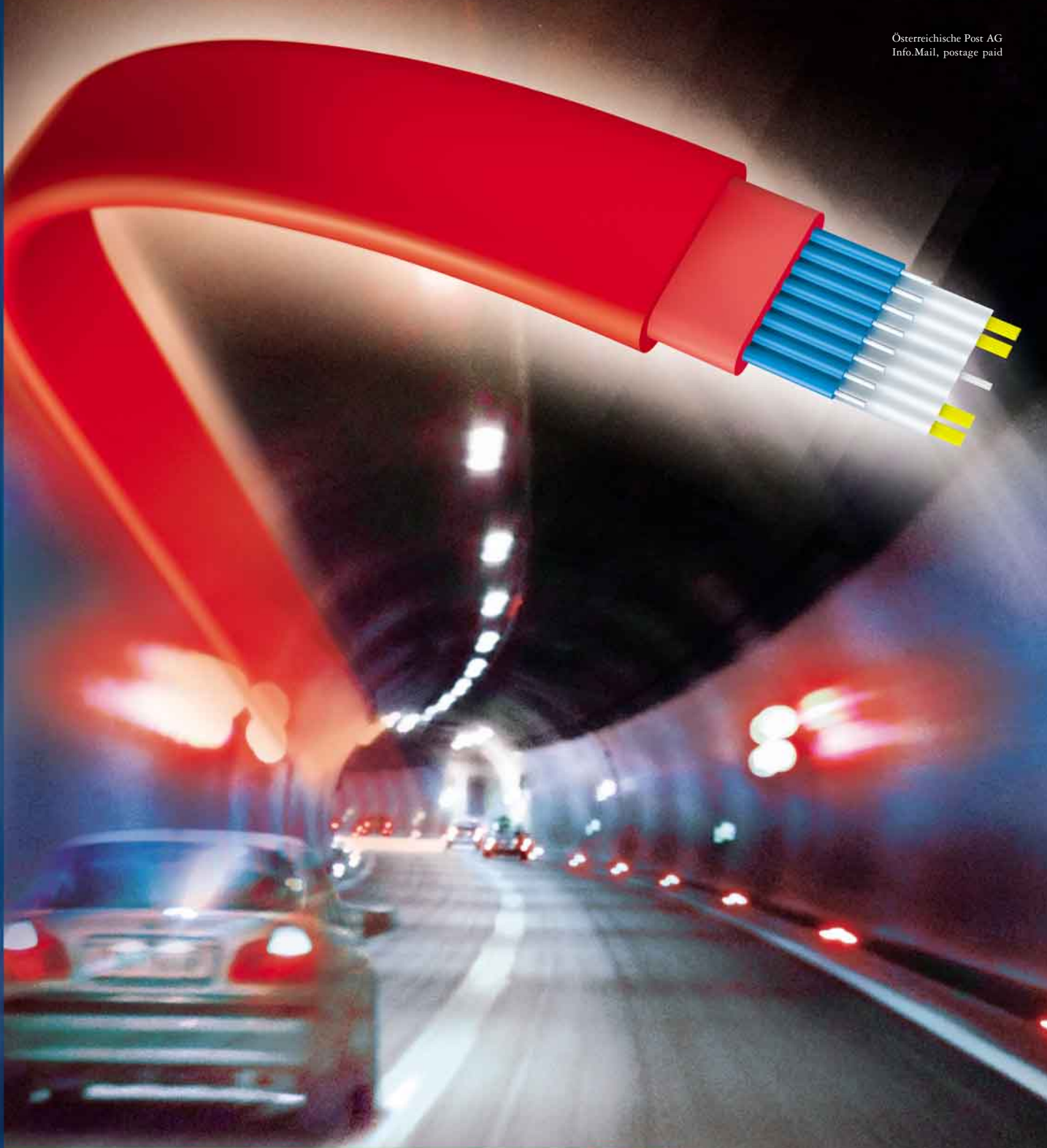


FIRE CARE



Fire protection all along the line

2-3 Seco**NEWS**

- Editorial
- IntelliFIX – the smarter one yields!
- The higher the room, the greater the need for ILIA
- SecoLOG – control station ensures overall view

4-5 Seco**PROJECT**

- Man in the center of networked communication
- High-tech security systems for research center
- Efficient patient care with VISOCALL IP
- MTD 533 hits the stage

6-9 Seco**COVER**

- Fire protection all along the line
- Perfect solutions for difficult ambient conditions

10-11 Seco**REPORT**

- Working for security and quality
- Glossary

SECURITY
WORLDWIDE

Customer magazine for Fire Alarm-, Communication- and Security Systems of Schrack Seconet AG



© Schrack Seconet AG

Dear customers and business partners of Schrack Seconet AG,

We see it as our most important task to make sure that our products meet all the requests and requirements in plant-specific preventive fire protection at the highest quality possible.

Therefore I am very pleased that, by introducing the Integral IP BX, we are able to launch a compact fire alarm panel on the market which complements our product family to perfection. It is a one-loop panel, which combines all the benefits of IP technology and is optimally suited for monitoring special objects. You will find a detailed description of this new fire alarm panel in the supplement to this issue.

In the about 30 years of its existence, the Inspection Institute for Fire Protection has become widely known and is now highly esteemed in our branch of industry. The work of the people in this institute and their approach to the companies in the industry are marked by competence and know-how, partnership and the knowledge of how important it is to continuously develop safety and security. With Wolfgang Steinkellner and Wilfried Pausa, we have won two interview partners who were able to give us an exciting outline of this development and of future requirements. I take this opportunity to congratulate them, and of course also all their colleagues from the Inspection Institute, on their great achievements during the past decades and to thank them for their good cooperation over the past years.

Yours,

Wolfgang Kern

IMPRINT: Editor, owner, publisher: SCHRACK SECONET AG, Security and Communication Systems, Eibesbrunnnergasse 18, A-1122 Vienna • responsible for the contents: Schrack Seconet AG, Rosa Maria Seilerbeck, Tel.: +43-1-81157-0*, Fax: +43-1-81157-222, office@schrack-seconet.com, www.schrack-seconet.com • layout: Atelier Mayer • text: Schrack Seconet AG, Lang & Tomaschitzik Communications • production: Edelbacher Druck Ges.m.b.H. • place of publication: Vienna.



© Schrack Seconet AG



the smarter one yields!

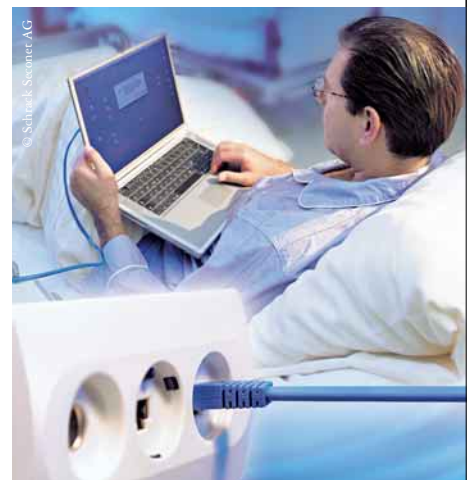
Connectors usually are subject to a lot of stress, such as pressure and strain or unnatural twisting. In communication systems such elements are plugs, cables, sockets and all moving call buttons. Patients must be able to control these devices from their sickbeds in every situation. Often the material is strained to its limit in this process and sometimes these limits are even exceeded.

and in particular means increase of costs for repair work and spare parts.

To solve this problem, Schrack Seconet has invented the auto-release plug IntelliFIX. This intelligent and cost-efficient solution is a major factor in minimizing unnecessary costs for maintenance and extras. IntelliFIX is the intelligent connector for all control units of the VISOCALL IP product family, as it yields in time, before

“ IntelliFIX – the intelligent way to save! ”

This may cause the quick destruction of the connector and increased wear of the cable and even the breaking of plastic parts. Apart from the frustration of all people concerned and the expenses for the required service this also



© Schrack Seconet AG



© Schrack Seconet AG

any damage occurs. If there is too much strain, the connector will yield and disconnect from the socket all by itself. In this way all parts will be saved from damage and destruction. ■

The higher the room, the greater the need for ILIA

The linear smoke detector ILIA is especially designed for use in high, open spaces, such as large industrial and public buildings, in exhibition halls and warehouses, as well as in garages. With its remote control unit, which simplifies all installation and maintenance jobs, it offers an added advantage.

Fire detection in high rooms is executed by means of an infrared beam, which comes from the transmitter and moves right across the space to be monitored, collecting all the information it needs for fire detection along the way. This information is then analysed and reliably evaluated by the receiver.

In its evaluation of relevant information, the system orients itself not only on the weakening of the beam but

it also records the typical changes during the onset and development of a fire by means of frequency analyses. ILIA reliably detects smoke and fire. The dustproof version of the detector, ILIA DUST, is optimally suited for premises with high dust development.

“ Fire detection by infrared beam ”

Thanks to its pollution compensation feature, it reliably differentiates between slow and dangerous smouldering fires and normal pollution. The unique double transmitter ensures optimum signal strength and stability. In this way it is possible to keep up trouble-free operation even in case of shaking and vibrations in buildings. ■



© Schrack Seconet AG

SecoLOG – control station ensures overall view

Quality, reliability and convenience – these are the three principles for which the SecoLOG control station of Schrack Seconet stands.

Overviews of the monitored property and premises are provided on two flat screens both as graphics and a table. By means of the dynamic zoom each part of the monitored building can be observed immediately and easily in a special view. A lot of additional information ensures fast intervention in case of an alarm. And, of course, the control station is in compliance with all the requirements specified in the relevant standards.

For some time now SecoLOG can also be used for monitoring all security systems installed. In this way objects protected by intrusion and CCTV systems or access control systems can be monitored even more closely. All sensors, magnetic contacts, control stations or cameras are indicated



© Schrack Seconet AG

SecoLOG

and marked in the graphically perfect maps. Christian Wimmer, product manager for security systems, explains why this feature is so special: “All the different systems can be run together via one single control station. In this way, the integration of fire alarm systems and security systems is intensified even further. This saves costs and makes information available in a compact and concise way!” ■

INFO
FIRE

Man in the center of networked communication

Humanomed was founded in 1975, when the convalescent home Althofen, which today is the Humanomed Zentrum Althofen, was established. Based on the philosophy “We are spanning the gap between pure medicine and the human being”, it has always been the connection of high-quality medicine and individual care that has been the most important thing. Today, in addition to the health spa and rehabilitation facility Humanomed Center Althofen, the private hospitals Villach and Maria Hilf in Klagenfurt are part of Humanomed group.

The interconnection of the individual competence centers under one roof has created a maximum of medical quality and safety in all houses. Schrack Seconet, too, is top when it comes to quality and safety. The company has equipped the private hospital Maria Hilf in Klagenfurt, which after a renovation was reopened in 2010, with a VISOCALL IP system. 139 communication and 181 patient terminals ensure that routines in the hospital run smoothly. At about seven office terminals the employees can get information around the clock about what is going on in the entire nursing area, and a great number of multimedia terminals bring entertainment and diversion right to the sickbed. This contributes greatly to the fast recovery of patients. After all, it is the well-being of patients, which, apart from the latest technology and highly competent medical treatment, is an important aspect of healing. ■



High-tech security systems for research center

The research center of the Children’s Cancer Research Institute is a center of competence with the aim to improve the healing rates in children and adolescents with cancer. In this Viennese Institute, which adopts a multidisciplinary approach and uses the most advanced methods, more than 100 employees are active in the successful development of paediatric cancer research.

Every day the researchers make major contributions to the fight against cancer. The building in the 9th district of Vienna was established on the site of a former market place. Originally, the Children’s Cancer Research Institute was housed in the attic of the St. Anna Children’s Hospital.



In the new building security systems from Schrack Seconet have been installed. An alarm system ensures security and reliable access control. ■



Efficient patient care with VISOCALL IP

University hospital “academisch ziekenhuis Maastricht” (azM) in Holland places its focus on patient care, education and training of professional staff as well as on medical research. The state-of-the art hospital has 715 sickbeds and more than 4700 employees. Trouble-free everyday hospital routines are ensured by professional competence as well as perfect man-technology interaction.

VISOCALL IP systems made by Schrack Seconet, which currently are being installed in the wards, connect staff and patients and offer an extensive information system for medical and nursing staff. The system is installed and connected to the existing DECT network by our partners in the Netherlands, Isolectra, based in Capelle/Ijsel. Both the signalling of VISOCALL IP calls and the required prioritisation is ensured, as a difference is made between emergency call and ordinary calls. In this way any escalation of situations can be reliably prevented.

In Zwolle another hospital in the Netherlands is equipped with VISOCALL IP. The Isala hospital is moving into a new building, comprising 104,000 square meters, where, for the benefit of patients, only state-of-the art technology will be used. Schrack



▲ University hospital in Maastricht



▲ Isala hospital

Seconet’s systems fit excellently into the concept of the designers, as they stand for the highest quality, reliability and high-tech at its best. ■

MTD 533 hits the stage

The Mariinsky Theatre in St. Petersburg is one of the most famous opera and ballet houses in the world. The history of the renowned Russian concert house dates back into the 19th century, when the Circus Theatre was destroyed by a fire. As there was no chance of saving the theatre, the new Mariinsky Theatre was built in 1859 on the same spot. Only one year later the first performance was held.

Since that time a great number of Russian operas and ballets had their first nights in the popular setting of Mariinsky Theater. Among others, world-famous soprano Anna Netrebko started her career in this house. The theatre was named after Maria Alexandrovna, the wife of Tsar Alexander II. The venerable building can seat an audience of about 2,000. Thanks to extensive renovation and restoration work in the past, the historic façade and the richly adorned auditorium still provides a suitable setting for the masterpieces of composers from Verdi to Tchaikovsky. Historic buildings also have very special demands when it comes to fire alarm systems. Safety aspects, but also aesthetics are of great importance



▲ Mariinsky Theatre



when fire detectors are installed. Bearing this in mind, Schrack Seconet has installed 6,000 MTD 533 fire detectors, 16 AirSCREEN ASD535 smoke aspiration systems and 1,600 loop modules, which are controlled by 20 Integral fire alarm panels. Due to their inconspicuousness the detectors are optimal for blending in with the architecture of the building, while still offering completely reliable fire protection during rehearsals and performances, but of course also during idle times. ■



Fire protection all along the line

HeatSCREEN® MHD 535

© Schrack Seconet AG

Whether motorways, express ways or mountain pass – tunnels are a common feature in modern road construction. While there is no denying that tunnel construction is extremely demanding and cost intensive, they still make a lot of sense. They are used as shortcuts and are constructed also for reasons of landscape and environmental

protection. Tunnels are often used to avoid roads leading through ecologically valuable areas. The first priority in tunnel construction is safety. A lot of special criteria have to be met in fire protection, since fire alarm systems are exposed to the most extreme environments and conditions. Schrack Seconet has the optimum solution to meet these requirements.

Underground irrigation and drainage systems of the ancient world were the predecessors of road tunnels. One of the first tunnels, which was used for water supply, was built in 530 B.C. on the Greek Island of Samos. In Central Europe the medieval water tunnel, the Stiftsarm branch of the Almkanal, is said to be the oldest tunnel. In 1143 it was cut through the Salzburg Mönchsberg. But it was only in the late Middle Ages that road tunnel construction began. It was because of increasing mobility that in 1765 the first road tunnel in Austria was completed: the Sigmundstor in Salzburg. In our times tunnel construction is a time and cost-intensive endeavour and may involve various construction techniques. But there is one thing that applies for every tunnel: The highest safety standards have to be met!

Perfect solutions for difficult ambient conditions

In 2006, the tunnel safety act was passed, which concerns all road tunnels on motorways and express ways of more than 500 meters length, and includes extensive safety regulations. One of the biggest hazards in a tunnel section is the onset of a fire. Especially in tunnels, fire alarm systems are life-saving facilities. They ensure that sources of fires are detected in time and make possible the fast alerting of the action forces. Fire alarm in a tunnel has to meet specific demands, as there are different ambient temperatures, which call for an individual response in each case.

With heat detector HeatSCREEN MHD 535 Schrack Seconet has created the perfect solution for difficult ambient



© Schrack Seconet AG

conditions. In the heat sensor cable highly-sensitive sensors are installed at customisable distances, which measure the ambient temperature and report it to an evaluation unit. By means of these individually programmable sensors, highly accurate localisation of alarms is possible.

Safely through the city tunnel

The MHD 535 already works successfully in the city tunnel of Waidhofen an der Ybbs. In this small city in Lower Austria the federal road B31 runs through densely populated residential areas. About 13,000 vehicles are driving through the city area on this road every day. The city tunnel provides considerable relief from negative traffic effects, particularly for people living near this road. In November 2011, the construction – officially called “Buchenbergtunnel” – was ceremonially opened. Since that day the fire alarm system from Schrack Seconet has been

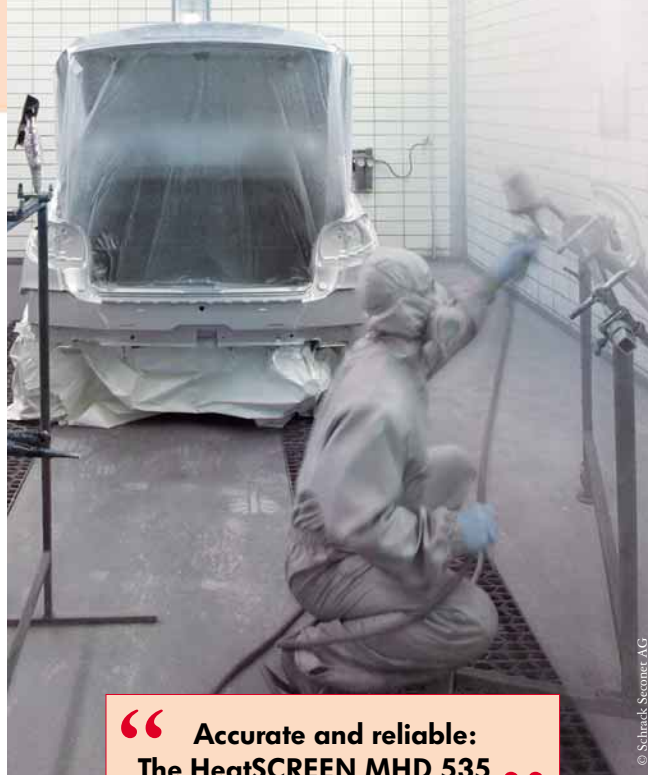
“ Schrack Seconet protects City Tunnel Waidhofen ”



© Schrack Seconet AG

active around the clock, providing tunnel safety. Three Integral IP MX fire alarm panels control 212 sensors, which monitor the tunnel over a cable length of 1560 meters. In addition, multi-sensor detectors MTD 533X and manual call points MCP 535X ensure reliable fire protection.

Also internationally, Schrack Seconet's linear heat detectors are in high demand. In Germany, for example, a number of road



“ Accurate and reliable:
The HeatSCREEN MHD 535 ”

tunnels, among others the Königshainer Berge and the Allacher tunnels near Munich, are protected by linear heat detectors. And in the tunnels of the Czech cities of Prague and Brno fire alarm systems from Schrack take care of fast and reliable fire alarms. This makes sure immediate response and evacuation of the tunnels in a worst-case scenario.

of a length of 1,300 m. In this workshop a diversity of products is electroplated. The fire alarm system reliably withstands the strong chemical stress of the vapours developing during electroplating. ■



“ Ideal for workshops,
production halls
and industry ”



**Proven effectiveness in many places:
HeatSCREEN MHD 535**

The HeatSCREEN MHD 535 is also optimally suited for use in industrial plants, as often the same difficult framework conditions as in a tunnel are encountered. Schrack Seconet has equipped the production hall of Intier Magna Eybl in Ebergassing with the linear heat sensor. The company manufactures interior equipment for passenger cars and has relied on the systems of Schrack Seconet for more than 15 years. The heat sensor is in intensive use also in Krems. The workshop of Stiefler GmbH is monitored by a HeatSCREEN MHD 535 with a cable

The ten longest motorway tunnels in Austria:

Name	Route	Opening	Lengths in m
Arlberg Road Tunnel	S16 Arlberg Expressway	1978	13.976
Plabutsch Tunnel	A9 Pyhrn Motorway	1987	10.085
Gleinalm Tunnel	A9 Pyhrn Motorway	1978	8.320
Karawanken Tunnel	A11 Karawanken Motorway	1992	8.019
Landecker Tunnel	A12 Inntal Motorway (spur route)	2000	6.955
Pfänder Tunnel	A14 Rheintal/Walgau Motorway	1980	6.718
Tauern Road Tunnel	A10 Tauern Motorway	1975	6.401
Strenger Tunnel	S16 Arlberg Expressway	2005	5.851
Katschberg Tunnel	A10 Tauern Motorway	1974	5.439
Bosruck Tunnel	A9 Pyhrn Motorway	1983	5.400

FIRECOVER SPECIAL



Working for security and quality

What in 1982 was a six-person enterprise is now the most important contact point for all issues of plant-specific fire protection. The Inspection Institute for Fire Protection is a state-certified auditing and inspection unit, certified by the Federal Ministry of Economy, Family and Youth, and is a 100 % subsidiary of the Austrian Association of Professional Fire Brigades. In the meantime further business branches have been included in the portfolio. Fire & Care has asked Wilfried Pausa, Managing Director of the Inspection Institute, and his deputy, Wolfgang Steinkellner, for an interview. The two experienced former fire brigade officers and top-level executives of the Vienna Professional Fire Brigade, have drawn a broad picture of the history and activities of their institute.

Wilfried Pausa,
Managing Director of the Inspection
Institute for Fire Protection



© DI Wilfried Pausa

Wilfried Pausa, 58, studied nuclear physics and construction engineering at Vienna University of Technology. After his studies he joined the Professional Fire Brigade in Vienna and was head of business group E. His scope of activities comprised internal and external communication as well as responsibility for communication systems, Intranet, radio and emergency power plans of fire stations. Mr. Pausa is chairman and member of many national and international committees and commissions on preventive fire protection and author of numerous regulations for plant-specific fire protection.

“ We are setting the trend in Europe! ”

Our institute and the fire brigade recognised the great capacities of this system and found that we had to do something about standardisation and regulations. Today, there is practically no area in plant-specific fire protection in Austria that is not standardised. Another important fact is that we have quality requirements in Austria that are a model for and unique in Europe in many areas.

Steinkellner: We have been on the scene already since the 50s of the last century. Originally, the Inspection Institute was established to check the equipment of the fire brigades. Therefore, what was tested then were hoses, pumps and similar objects. In the end of the 70s the Inspection Institute started to test plant-specific fire protection. When the accreditation act entered into force, we defined our new tasks. We were no longer a department of the Austrian Association of Professional Fire Brigades (ÖBFV) but a GmbH-type company, which today has 95 employees. And we are certified for 40 procedures.

F&C: You have a market share of 60% in Austria. What are your business branches?

Pausa: First, I want to point out that, due to our ownership structure, our profits go to the Austrian Association of Professional Fire Brigades and the Austrian fire brigades. For one, our domain is the plant-specific preventive fire protection and therefore our customers are all companies that manufacture and install technical systems. We test all types of new fire alarm systems and extinguishing plants for their compliance with the standard and record the results in an inspection and test report. Only a device or system that has been subjected to such a test and has received the required certificate may be used. We test the system on site and give our opinion in accordance with the technical regulations in the field of preventive fire protection (TRVB).

Steinkellner: Second, we draw up fire protection concepts and fire protection plans

FIRE ALARM



Integral IP BX.

Compact fire safety with IP interface.

Up to 250 elements on a single loop up to 3,500 m long, access over TCP/IP with mobile end devices over Internet/Intranet and maximum security thanks to Central European quality and production. Security has a name: Schrack Seconet.

SCHRACK SECONET AG • Security and Communication Systems
A-1122 Vienna • Eibesbrunnergasse 18 • Tel.: +43-1-81157-0 • office@schrack-seconet.com

FIRE ALARM

www.schrack-seconet.com

SCHRACK
S E C O N E T