

For decades, security systems by Labor Strauss have been associated with innovative technology and highest quality, serving safety. All steps of the value-adding process – including market analysis, development, manufacturing, distribution and customer service – are united in one company. The products of the Austrian family business ensure safety – in many parts of Europe and the world.



LABOR STRAUSS SICHERUNGSANLAGENBAU GMBH  
office@lst.at · www.laborstrauss.com

A-1230 WIEN · WIEGELESTRASSE 36  
TEL +43 1 521 14-0 · FAX +43 1 521 14-27



grafik www.holoubek.at

WE MASTER THE TECHNIQUE TO PROTECT VALUES



# THE PROTECTION OF PEOPLE AND PROPERTY IS OUR AIM

Particularly the last century was characterised by fundamental technological, economic and political changes. New values were defined, historical values conserved for posterity – new technologies generated completely new needs among the people. But, despite many changes, a basic need of the people remains the same – the need for safety. LST has dedicated its business activity to this most innate need of mankind.

## **Milestones and Global Innovations in the Design of Security Systems**

After LST had proved its innovative strength and pioneering spirit in 1966 with the presentation of the first burglar alarm control panel, a worldwide novelty was presented by LST in 1975: The first fire detection control panel with VdS-approved individual detector identification opened up completely new security dimensions. Up till today continuous development and research is carried out – LST constantly presents solutions, which are regarded as milestones in the development of security technology. Thus, the first large fire detection control panel in the world with a decentralised structure was put into operation in the year 2000. The design, based on autonomous sectional control panels with equal rights in the Global Security System Network GSSnet, was most innovative. The new control panel family BC600 is based on these decades of experience: it combines state-of-the-art technologies, a forward-looking modular structure, an exceptional wealth of parameter setup possibilities and user-friendly handling.



# SECURITY TECHNOLOGY WITH A HISTORY

1966

LST introduces its first burglar alarm control panel: the **AZ1**

1968

With the **IMZ2200**, the first LST fire detection control panel is presented

1975

With its third generation, LST develops the world's first VdS-approved fire detection control panel with individual detector identification: the **BSL144**

1990

LST develops the first large fire detection control panel for connecting intelligent analogue fire detectors: the **LBC1000**

1992

The subsidiary MEP-Gefahrenmeldetechnik is founded

1995

The proven LST quality is certified according to ISO 9001

1998

LST presents a new generation of fire detection control panels: the **BC216**

2000

LST introduces the worldwide pioneering concept of a large fire detection control panel, decentrally distributed in the building, based on the newly developed „Global Security System Network“ GSSnet: the **BCnet216**

2005

Foundation of the German subsidiary Labor Strauss Sicherheitssysteme based in Mönchengladbach

2011

LST already introduces its seventh fire detection control panel family: the **BC600**

2012

LST's environmental management is certified according to ISO 14001

2014

The fire detection control panel BC600 can be networked via the net600 high-security network

2016

Foundation of the German subsidiary Labor Strauss Sicherheitssysteme Nord, Hamburg

2017

Presentation of REACT, an innovative app that allows for the operation of fire alarm systems via mobile phone

## Serving Security since 1924

Labor Strauss was founded in 1924 by Sigmund Strauss, the inventor of the X-ray dosimeter. In this way, he laid the foundation for the success of the company. With the development in 1965 of the AZ1, the first generation of burglar alarm control panels, the company entered the field of building security technology. Since that time, reliable products combined with innovative ideas form the basis of the family business with its decades of success.

By moving to the new premises in the South of Vienna in the year 2006, plenty of space for the extension of the production was created. Long-term investments in state-of-the-art equipment for processing pioneering technologies allowed a considerable increase in the manufacturing capacity. Today, Labor Strauss is the leading Austrian manufacturer of professional building security systems.

In large parts of Europe and many other regions of the world, LST's security technology is highly appreciated. Public and historical buildings, hotels, hospitals, universities and schools, shopping centres, industrial complexes, airports and railway stations – the list of objects that are successfully protected by LST's building security systems is growing constantly. The attentive „invisible“ guard from LST is always ready to warn of dangers.

## COMPETENCE THROUGH INTERNATIONAL EXPERIENCE

LST employees are proud to be employed in a family business. Because, thanks to quick decisions and quick access to the responsible persons in the management, they can offer their partners fast and flexible individual solutions. The independence from the interests of multinational corporations ensures the continuous development of an individual range of products and forms the basis for the long-term success of the company.



LST protects classical and modern age – in many parts of Europe and the world.

# LST IS MORE THAN TECHNOLOGY

LST is a high-tech company in the service of safety. Apart from the production of innovative and technically outstanding security systems, the company also offers an Austria-wide service network relating to the topic „security“.

## In-house Production

LST appreciates the benefit of domestic manufacturing. The in-house production in Vienna is equipped with the latest technology for the manufacturing of electronic components and for the assembly of the finished products. Even smallest and highly integrated SMD components are efficiently processed with modern pick-and-place systems and reflow soldering machines. In this way, resources are saved and the production times are reduced. As a result, even special customer needs can be realised within a short period of time.

## Highest Quality and Reliability

Thanks to the selection of high-quality components and materials, the in-house production and the application of rigorous test methods for the function test of every single component, the constant high quality of LST products is achieved. This is the most important prerequisite for reliable security systems.

## Analysis and Consultation

For LST, customer advisory service is the top priority. Because only informed customers can properly assess safety risks and the appropriate safety solutions. After thorough analysis of the individual requirements profile, LST's specialists develop the optimum safety solution for the respective application in consultation with the customer.

## Planning and Project Management

LST's competent technicians ensure perfect planning of every security system. The experienced safety engineers take care of project management and support our customers from planning to commissioning of the system. State-of-the-art CAD programs and design tools that have been specifically optimised for the application support the technicians in their work, thus allowing them to perfectly visualise all planning steps for their customers.

## Training and Documentation

Regular trainings provide the necessary know-how for all persons who look after security systems. In the professionally equipped training facilities, LST regularly gives specialised seminars according to the requirements and needs of the customers. For the documentation of the LST security systems, an extensive library of carefully created and regularly updated user manuals is available. In the course of planning, LST's technicians draw up all system-specific documentation and plans.



# FIRE DETECTION SYSTEMS

Fire detection technology acts, long before a source of fire becomes a security risk. Dangers reported on time help decisively to protect people and to safeguard irretrievable material assets. From the fire detection control panel to highly sensitive detectors for a variety of characteristics of fire, to acoustic and optical signalling devices, LST offers an extensive product range for the installation of complete fire detection systems.

## Fire Detection Control Panels

With the three fire detection control panel families of LST, all possible applications can be covered. Depending on the requirements and the system size, the compact control panels in conventional technology, the modular standard control panel in loop technology or the universal large-scale control panel with networking capability is used.

The universal Fire Detection Control Panels Series BC600 allow almost unlimited expansion:

- with loop interfaces for different detector protocols,
- with conventional detector interfaces,
- with input or output modules for the connection of fire prevention devices, as well as
- with a huge number of interfaces to peripheral devices.



The control panel family BC600 is available in several mechanical versions – in the wall-mount cabinet, in the 19-inch front-mount housing, or for installation in a switch cabinet – and offers extensive expansion options.

# FIRE DETECTION SYSTEMS



## Comprehensive Peripheral Equipment

By using fire detectors with different detection principles and detector technologies, the systems are optimally adapted for the respective requirements. The LST product range includes

- smoke detectors and heat detectors,
- multisensor detectors for up to four different characteristics of fire,
- sophisticated smoke aspiration systems,
- radio-linked fire detectors for areas where cabling is more difficult,
- manual call points in various colours and versions,
- input and output modules for monitoring and actuating, as well as
- sounders, strobes and combined signalling devices.

Furthermore, an extensive range of special detectors for various applications is available.

## Clear Indication of the Dangerous Events

Once the dangerous situation has been detected, a clear overview of fire alarms or faults considerably contributes to the success of the public safety personnel. Remote tableaus, LED display tableaus or application-specific synoptic tableaus provide the optical signalling of the events of an LST security system.

The building management system AIViS shows a quick and clear overall view in case of danger and permits operation of the system – even at a long distance. A clear event display, the immediate indication of the building plans in question for the operation control, convenient operability and the link to mobile devices distinguish the system.

## Certified Quality

The components of the LST fire detection systems have been tested and certified by VdS or other accredited test institutes, as required by the Construction Products Directive CPD or the Construction Products Regulation CPR, according to the standard EN 54.

## Remote access with mobile devices

By means of the remote access system REACT, the operation of the fire detection system or the query of the system events can be conveniently carried out from afar through a PC, a tablet or a smartphone.

For the connection to the REACT server, the fire detection control panel only needs an internet connection. A data connection that is protected by state-of-the-art methods offers an effective protection against unauthorized access.



# EXTINGUISHING CONTROLS

Once a fire situation has been detected, early and effective counteracting measures must be initiated. Until the public safety personnel arrives, valuable time passes during which the fire can endanger persons and cause major damage to property.

An automatic extinguishing system can already fight a fire effectively at an early stage, thereby making a substantial contribution to the fire protection.

Depending on the application and the field of use, liquid media, powdery aerosols or gaseous extinguishing agents are used in an extinguishing system.

Based on decades of experience in the field of building security technology, LST supplies universal extinguishing controls for any extinguishing agent.

## Extinguishing Control Panels

The extinguishing control panel manages the extinguishing process – including the activation of sirens and warning signs for the evacuation of the area in question, the actuation of extinguishing valves and the monitoring of the complete flooding process. In order to release the extinguishing agent, various devices such as solenoid valves, pneumatic control systems or pyrotechnic ignition devices can be actuated. The flexible concept of the extinguishing control panels by LST is best suited for all kinds of extinguishing systems – including simple aerosol extinguishing systems, sprinkler systems and highly complex gas extinguishing systems. The control panels are also tested and certified for the actuation of pre-controlled dry systems, spray water and foam extinguishing systems. Furthermore, the panels can be used for the monitoring of sprinkler systems.

The function of the extinguishing control is fully integrated into the LST fire detection control panels. Since a separate control panel is not required, there is no transfer interface with the resulting information loss either.



## Power Supply Devices

The universal Power Supply Units Series NT624 are designed as supplementary power supplies in fire detection systems and extinguishing systems. By means of the power supply units, a variety of devices such as smoke aspiration systems, sounders, special detectors, solenoid valves or any other devices, which require an uninterrupted power supply with a nominal voltage of 24V, can be powered.

The power supplies with intelligent battery monitoring are available with an output current of 2.3A, 4.3A or 8.5A and have been tested and certified according to EN 54-4.



## Gas Extinguishing Systems

As gaseous extinguishing agents, either inert gases – such as nitrogen, carbon dioxide or argon – or chemical extinguishing gases are used. In the case of gaseous extinguishing agents, special demands on the extinguishing control system are made since some extinguishing gases have a toxic effect, thus endangering persons. This is just why an absolutely reliable high-quality fire detection and extinguishing control technology is required.

Gas extinguishing systems are extremely well suited for the protection of critical assets or areas with high-value technical equipment. Computer rooms and

data-processing centres, permanently manned control rooms, electrical distributors and telecommunication facilities are among the typical applications, just like museums, archives or libraries.



# EVERYTHING FOR A QUICK „FIRE OUT“



## System Components for Fire Brigade Operations

In addition to the technologies for quick fire detection, LST also supplies all safety devices that make the work of the fire brigade easier, once it has arrived at the location:

- country-specific fire brigade control units for the uniform operation of the fire detection system,
- fire brigade display panels and orientation panels for the clear indication of the most important danger messages,
- fire brigade key safes for the safekeeping of the building keys,
- map boxes for the storage of the plans of operations for the emergency personnel.

The fire brigade components are manufactured within the LST group and have been tested and certified by VdS, where applicable.

## Fire Brigade Key Box FSK700-2

Thanks to the use of selected materials and the permanent monitoring, key safes ensure the safekeeping of the building keys. But in the event of a fire or another natural disaster they also allow the fire brigade quick access to the keys and thus to the building – without using any force.

If there is no building facade that allows installation of the fire brigade key box, the box can be integrated into the key depot column, made of stainless steel. The high safety is achieved through the massive construction and either through the concrete filling or the electronic all-round drilling protection.

At the request of our customer, the key depot column can also be provided with additional devices such as an intercommunication system or a letterbox.

