

OVERVIEW OF THE TRADE FAIR PRESENTATION

GEZE at the FENSTERBAU FRONTALE 2018

21 – 24 March 2018, NürnbergMesse, Hall 2, Stand 2-424



Leonberg, 21 March 2018



The new BACnet building automation system GEZE Cockpit makes buildings really smart. Doors and windows can now also be integrated into a building system, and operated and monitored from a central location.

Photo and pictures: GEZE GmbH

Smart façades. Made by GEZE.



Heating, lighting, ventilation, and climate control systems: all of them are great and, of course, useful. But buildings only become really smart (meaning complete, safe and efficient when doors and windows are also automated and integrated into the building system. At the Fensterbau Frontale trade show, GEZE will once again present new and innovative solutions from the fields of **door**, **window** and **safety technology** as well as **building automation**.

Professional solutions: Intelligent solutions for doors and windows

One of the highlights on show at the trade fair will be **GEZE Cockpit**: The new BACnet building automation system makes buildings really smart, since it now allows automated doors and windows to be integrated into a single building management system. Thanks to interdisciplinary networking in Smart Buildings, GEZE Cockpit offers new options for convenient, secure, and energy-saving building operation. The system's unique advantages are the central visualisation, operation and monitoring of automated GEZE products for door, window and safety technology. It can be used as an independent system, or integrated into a higher-ranking building control system. **Further illustrative information can be found here: www.cockpit.geze.com**

Networked into GEZE cockpit, and therefore centrally controllable, GEZE presents the **F/R-IS/TS variant of the revolving door drive system Powerturn**, a unique and complete multifunctional solution with an automated and a manual door leaf. Featuring the multi- award-winning ‘strong’ Powerturn drive, and proven GEZE door closer technology, the door system combines remote operation and monitoring with barrier-free and secure door comfort, emergency exit protection, fire protection and increased burglar resistance. The headstock cover, which extends consistently over both door leaves, creates a perfect look.

GEZE also has new products in door closer technology. The new **door closer TS 5000 Softclose** with high end closing force ensures the safe closing of doors even when there is limited space or an unfavourable environment, e.g. in the airlock areas of multi-storey car parks. The banging of doors is prevented – without additional dampers. **Hold-open systems** from GEZE can be supplemented with the new **FA GC 170 wireless extension kit**. The new solution is ideal for retrofitting ceiling fire detectors.

Automated, networked windows create façades that adapt to the climate. For controlled, natural ventilation, GEZE will be presenting façade windows with drives from the IQ window drives range. The new generation of **Slimchain 230V chain drives** is particularly slim. Installation and commissioning are now even faster and easier. The **IQ box KNX interface module** enables windows to be connected as direct bus participants in a KNX building system, and be monitored and managed ‘smartly’.



The window drives from the GEZE IQ window drives range can be integrated into KNX building systems via the IQ box KNX interface module.

Photo: GEZE GmbH

Living Solutions: New door comfort with GEZE ActiveStop

GEZE presents the new version fitted on the frame of the **GEZE ActiveStop door damping**. The system ensures controlled, dampened opening and closing of interior doors. This version fitted on the frame can simply be adhered into position, and then removed again. During **live installations** at the GEZE trade fair booth, visitors can see for themselves how easy the retrofit version is. Like the door integrated version, it has already received two awards.



The new GEZE ActiveStop door damping also received a significant design award for the version fitted on the frame.

Photos: GEZE GmbH



Service Solutions: Work more easily with GEZE service tools

GEZE presents new tools that facilitate the work of installation companies and planners. One of them is WinCalc. The configurator for window technology makes the selection of the optimal window drive easy. **The new, more advanced version WinCalc 2.0** can be operated even more intuitively. Among other things, it offers advanced calculation options and a shortened calculation method.

Press contact:

Ellen Schellinger
Tel.: +49 (0)7152 203-536
Fax: +49 (0)7152 203-237
Email: e.schellinger@geze.com

GEZE GmbH
Reinhold-Vöster-Straße 21-29
D - 71229 Leonberg
www.geze.com

ABOUT GEZE

The GEZE brand stands for innovation and premium quality products, processes and services. GEZE is one of the leaders on the market and is a reliable partner worldwide for door, window and safety technology products and systems. No matter what the requirements of the building are – GEZE realises optimum solutions and combines functionality and security with comfort and design. GEZE door closers open up numerous technical and visual options. Every day millions of people go through doors equipped with the overhead door closers from the TS 5000 series and enjoy the barrier-free convenience of automatic door systems, e.g. the Slimdrive and Powerturn lines. The integrated all-glass design systems are pure aesthetics. GEZE also has a wide product range for window and ventilation technology. Complete smoke and heat exhaust solutions (RWA) and a comprehensive selection of door systems for RWA air supply solutions are also available for preventative fire protection. GEZE's safety technology includes escape and rescue route solutions, lock technology and access control systems. With system expertise, GEZE creates coordinated system solutions that combine individual functions and security requirements in one intelligent system. The latest innovations are the new building automation system GEZE Cockpit and interface modules for integrating GEZE products into networking solutions which turn buildings into Smart Buildings. GEZE product solutions have received numerous awards and can be found in renowned structures all over the world. The company is represented by 31 subsidiaries, 27 of which are abroad, a flexible and highly efficient distribution and service network and more than 3,000 employees worldwide and generated revenues of over 406 million Euros in the 2016/2017 business year. www.geze.com

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Images: GEZE GmbH

**The new GEZE Cockpit building automation system:
 Door, window and safety technology intelligently networked**

The new GEZE building automation system makes buildings really smart, in that they are completely networked, safe, energy-saving, and efficient. The unique, interdisciplinary networking of GEZE's door and window technology, using smart software and open interfaces, fills a gap. The central visualisation, operation and monitoring of automated GEZE products opens up new possibilities for operators and planners in building automation. GEZE Cockpit can be used as a stand-alone building automation system, or be integrated into a higher-ranking building control system.

Networked and smart doors and windows

GEZE Cockpit for the first time enables the full intelligence of GEZE products – i.e. all available control options and status information – to be integrated into the building automation system. From now on, they can be controlled and monitored with the highest degree of precision. One example of this is the seasonal setting an automated door's opening width, or a window opening and closing according to the external temperature, in interaction with weather stations and heating systems.



Photo: GEZE GmbH

Door and window scenarios – automatically the right response

Individual scenarios can be saved in GEZE Cockpit, so that doors and windows are automatically opened and closed or doors locked. This is triggered either by time or by a specific event. Networking with GEZE Cockpit also allows doors to be monitored and operated, the mode of operation to be changed, and the specific release of escape routes or intelligent smoke and heat extraction to be managed remotely. Time-consuming checks by staff are eliminated because the status of the individual components is fed back. Deviant conduct, alarm and error messages can be easily identified and countermeasures can be taken as required.



Photo: Jürgen Pollak for GEZE GmbH

Ventilation scenarios ensure interdisciplinary interaction between product groups, creating an optimal indoor climate. Integrated in GEZE Cockpit, the façade technology responds to changing climatic conditions. Windows close according to the external temperature, rain and wind, or open depending on the room temperature and air quality. Time-controlled ventilation scenarios in office buildings enable natural, energy-saving night-time back cooling, or individual rooms to be ventilated for meetings.

Operation with any IP-enabled device

GEZE Cockpit is operated with a browser-based software. Depending on the use, three different applications are used, which cover various demands within a building. Whichever software configuration is implemented, the comprehensive package of GEZE Cockpit commissioning and installation services is always included. Any IP-enabled device – be it a PC, tablet, smartphone or touch panel – can be used to access and deal with information from the system. Up to 62 GEZE products based on a BACnet IP can be networked with any GEZE Cockpit system. Automatic door systems, emergency exit route and emergency exit protection systems, hold-open systems, electric strikes, motor locks, window and window groups. Data exchange between GEZE Cockpit and the integrated doors and windows takes place via the IO 420 BACnet interface module.



Photo: GEZE GmbH

Meet all of your targets with GEZE Cockpit

Using the same hardware and software, GEZE offers various ways of connecting GEZE products based on a BACnet IP to all common building automation systems.

Integration into the building management system

In the "integration solution", GEZE Cockpit functions as a smart router for connecting GEZE products to the higher-ranking building management system. All relevant data points of the connected products are made available to the building management system for further processing in cross-functional and interdisciplinary scenarios. After assessing the requirements using specific applications within a building, GEZE establishes partnerships with leading building management system providers at an early stage of the planning and project development cycle. GEZE products can therefore be quickly and easily connected, and are "plug & play" compatible, so that innovative and interdisciplinary solutions can be created. The building operator can be certain that the wide range of functions of the GEZE products are perfectly integrated in the building management system. Interfaces are minimised, and functions are centralised. GEZE also supports the "integration solution" following the planning stage, advises clients and specialist planners, assists with the connection and configuration of GEZE networking components and products, as well as with networking and connection thereof to the building management system, and the installation and commissioning stages, the training of authorised users, and maintenance during operation.

Independent solution

In the "stand-alone solution", GEZE Cockpit is used for existing door, window and safety technology applications in which less extensive building automation is sufficient, e.g. in small to medium projects. As well as the integration option, GEZE Cockpit offers its own operator and user interface. All integrated GEZE components can therefore be monitored and controlled from any location and centrally, using a web-based browser interface. Naturally, GEZE also offers a carefree package, covering everything from planning, realisation and technical implementation, to operation and maintenance.

The best of both worlds

If a more comprehensive building automation system is to be used, the integration and the stand-alone solutions are both compatible. GEZE Cockpit can remain unchanged in the building, and is simply connected to the building management system by means of extended software functionalities.

Innovation partnerships

As an innovation partner, GEZE is open to common product developments with building management system manufacturers for the integration of completely new building automation applications across manufacturing and functional boundaries. This is made possible by the open communication standard BACnet as the basis for previously unknown integration issues.

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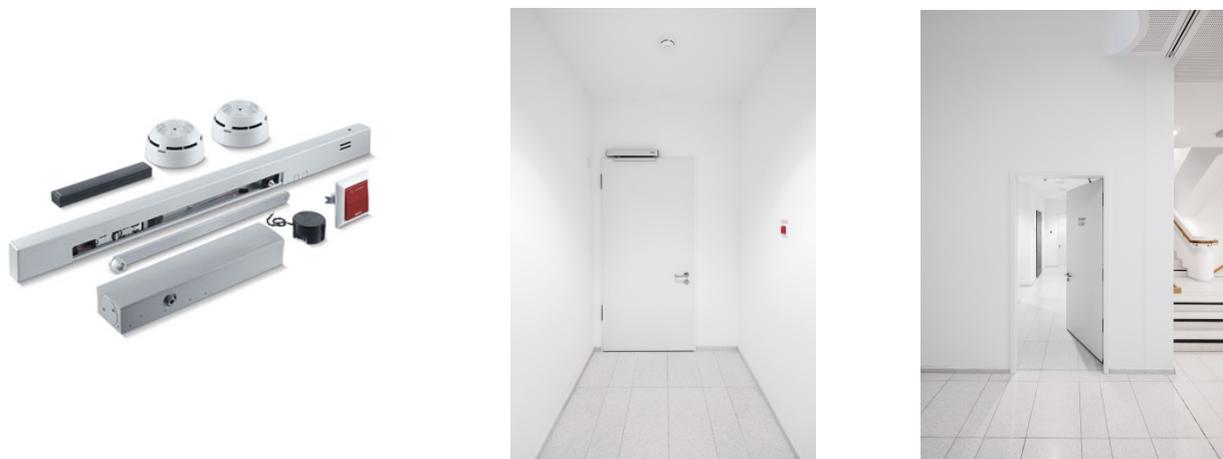
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Leonberg, 21 March 2018

NEW PRODUCT

Extending hold-open systems: convenient wireless operation



Photos: GEZE GmbH

Fire protection doors which must close safely in an emergency can also be used for barrier-free access. Hold-open systems hold them open electrically until they are either closed manually or – in the event of a fire – closed by activating the smoke switch. GEZE offers complete hold-open systems, such as the systems in the TS 5000 door closer range in combination with the GEZE R-guide rail with integrated lintel-mounted smoke detector. With additional ceiling and lintel-mounted detectors GEZE makes hold-open systems for fire and smoke protection doors that meet German general design certification (ABG) standards.

The new FA GC 170 wireless extension kit

In order to offer greater safety and convenience GEZE has made its range of hold-open systems even more appealing with a special extension solution. Traditional wired connections can now be replaced with wireless ones. The wireless components of the new GEZE FA GC 170 wireless extension kit can be easily connected to existing systems via a wireless module. FA GC 170 is a much-welcomed retrofitting solution that enables GEZE hold-open systems, ceiling-mounted smoke detectors and manual trigger switches to be connected wirelessly to the wireless module on the lintel-mounted detector.

No structural modifications – optimum retrofitting

Installing the FA GC 170 wireless extension kit requires no additional cables to be hooked up to ceiling-mounted detector and manual trigger switch: This is a real advantage where structural modifications are unwanted or impossible, e.g. in listed buildings. What's more, the system allows you to easily retrofit ceiling-mounted detectors on existing hold-open systems. The new solution guarantees secure, preventive fire protection and meets all of the relevant requirements.

Quick and easy connection – low maintenance

All of the wireless extension kit components are connected via a DIP switch. The wireless module at the heart of the wireless system enables wireless communication between the virtually invisible lintel-mounted smoke detector, integrated into the guide rail, and the various wireless devices, e.g. the wireless ceiling-mounted smoke detector and wireless ceiling-mounted temperature detector as well as the wireless module to the manual trigger switch. Flexible system configuration allows you to connect up to six wireless devices, so even ceilings affected by certain structural conditions can be fitted. The FA GC 170 wireless extension kit can be used with all GEZE hold-open systems and is tested according to DIN EN 54-25. The long battery life of five years reduces its maintenance costs.

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NEW PRODUCT

Silent, powerful and accessible in every environment

The new GEZE TS 5000 SoftClose overhead door closer



Photo: GEZE GmbH

Reliable, safe and silent closing of doors even in environmental conditions that do not so obviously lend themselves to this level of comfort, like the generally narrow interlocking door system areas of underground car park entrances, staircases or wind or heavy suction – these are the advantages of the new TS 5000 SoftClose door closer. Door slamming is prevented by damping the door shortly before the closing position.

The real “strength” of the TS 5000 SoftClose is its exceptionally high end closing force. The closing speed can be set individually within an opening angle of between 0 - 15°. Thanks to its optimised closing process, doors are pulled into the lock securely with constant force. The TS 5000 SoftClose door closer is the perfect solution for clients desiring or needing their doors to close quietly, gently and securely, e.g. in hospitals, hotels and apartment buildings. It fulfils DIN 18040 demands for barrier-free construction up to a leaf width of 1,100 millimetres.

The new door closer can replace existing versions of the TS 5000. It is compatible with all GEZE guide rails. The TS 5000 SoftClose can be used with single and double leaf doors and a range of door systems and is flexible in terms of its installation.

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NEW PRODUCT

FT 300 electric strike – flexible safety for fire protection doors

Electric strikes are useful and important aids for doors which experience a high level of use. For emergency exits that double up as fire protection doors, special emergency exit electric strikes are vital. The new FT300 emergency exit electric strike is approved for use on fire protection doors under DIN EN 14846:2008 and thus optimally suited for this purpose. It also offers greater convenience, as it opens doors even with a preload of up to 500 N, with a full latch engagement. The latch engagement depth is nine millimetres for double-leaf solid leaf doors. At the same time, the FT300 offers a maximum holding force of 10,000 N against tampering, allowing it to be used as a safety electric strike too.



Thanks to a new connection technology, manual installation is easy: the connection block can optionally be reconnected, enabling universal installation. Moreover, the FT300 fits in all conventional strike plates, and can also be easily adjusted in this instance.

Photo: GEZE GmbH

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Powerdrive hermetic automatic sliding door system: A complete system for the most demanding requirements



Photo: GEZE GmbH

Whether in the operating theatre or on intensive care and dialysis wards: the new GEZE Powerdrive hermetic sliding door system is ideally equipped for applications with demanding hygiene and air-tightness requirements. The complete system – consisting of door leaves, automatic drive and the frame – is suitable for clinical areas, and is also perfect for clean rooms, sterilisation rooms and laboratories. An all-round seal, combined with the frame, provides very low air permeability (class 3-4 of 4). The door leaf is also lowered and pressed into the framework construction, strengthening the effect. The flush door design and special surface materials used prevent dirt from accumulating, and simplify hygienic cleaning. While the door opens completely when a hospital bed needs to be pushed through, it opens only half-way to allow a person through. The varying opening widths help to reduce the penetration of foreign particles and minimise the exchange of air. Where necessary, different opening widths can be created for cleaning staff via a manual push button. Further extra functions are available, including definable opening widths and hold-open times.

Powerdrive PL-HAT as a kit version

With Powerdrive PL-HT, it is also a sophisticated mechanism that achieves low air permeability by lowering and pressing the door leaf against the framework construction. This kit version, consisting of a drive kit and long materials, is also perfect for use in clinics and the high-tech, pharmaceutical, and the food and drink industries.

System solution:

Automatic sliding door for areas with high hygiene requirements



Photos: GEZE GmbH

GEZE automatic sliding door systems, such as Powerdrive hermetic, open and close passage doors reliably to provide barrier-free access. They are controlled and secured by a combined detector. The GC 306 proximity switch offers contactless and hygienic manual activation. The automatic components can be integrated into the building technology via the IO 420 interface module and the GEZE Cockpit building automation system, while the door system is controlled via the BACnet communication standard.

NEW PRODUCT**ECdrive H automatic sliding door system for optimal hygiene conditions**

Photo: GEZE GmbH

GEZE is expanding its automatic sliding door system portfolio with the ECdrive H kit solution designed especially for use in clinical areas. Preparation rooms and departmental laboratories specifically require doors and passageways that are as germ-free as possible. With opening widths optimised for hospital use (nurse-, cleaning- or bed opening), the ingress of foreign particles can be reduced and air exchange minimized. Low-depth tracks reduce dirt residue and simplify hygiene cleaning. There are numerous configurations, all based around the kit solution, allowing project-specific collaboration with installation companies. The result is numerous solution scenarios which are optimal for use in the high-tech, pharmaceutical or food and drink industries.

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Photo and picture: GEZE GmbH

Greater access convenience – and a completely new door feeling: The GEZE ActiveStop door damper now also in a version fitted on the frame

With the GEZE ActiveStop door damper, it is more comfortable than ever before to enter rooms. The version integrated into the door leaf is virtually invisible. The version fitted on the door frame makes the perfect retrofit for existing doors – whether made of wood or glass. The intelligent system ensures controlled, dampened opening and closing of swing doors.

With GEZE ActiveStop, doors are stopped gently, closed quietly or kept open with ease. Whether you give the door a gentle or a hearty push – the system opens it safely and independently, right up to the stopping position which can be personally adjusted to anywhere between 60 to 140 degrees. At the same time, the door damper brakes the door at the right time and keeps it open safely in the required position. This is also an advantage if it draws a lot during ventilation and the door threatens to slam shut in an uncontrolled way. In this case, GEZE ActiveStop intervenes and ensures the door is held open safely. Thanks to active damping, the door closes slowly and quietly from about 25 degrees and prevents not only noisy slams, but also damages to the door, unsightly marks on walls or injuries as well. Doors 'run freely' at between 25 and 60 degrees. The door damper reliably catches them from 25 or from 60 degrees.

Installation? It couldn't be easier

GEZE ActiveStop can be integrated into room doors (including those with glass panes) with a leaf weight of up to 45 kilograms. Compact in size and measuring just 28 millimetres wide, the door damper can be integrated virtually invisibly into the door leaf, with few milling steps. The version that is fitted on the frame is adhered to glass or wooden doors and can easily be removed – a big advantage in rented accommodation, for example. End-users receive a complete door system and only have to set the desired back check and opening angle. The system can be adapted to any door situation. Because the door remains closed on its own, no lock latch is necessary.

Innovative design repeatedly awarded

GEZE ActiveStop meets the highest design standards and has received many awards, most recently at the *ICONIC AWARDS: Innovative Interior 2018*. In the “Building fixtures” category the international expert jury honoured the new door damper 'GEZE ActiveStop fitted on the frame' with the 'Best of Best' award.

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Slimchain 230 V chain drive – easy natural ventilation



Photos: GEZE GmbH

Slimchain is the slimmest of the GEZE chain drives, and a true all-rounder in the GEZE chain drive range. A wide range of applications and a discreet, compact design that fits into any façade are among its strengths. The Slimchain variants are suitable for a wide range of window types, formats and materials.

The new generation of Slimchain 230 V chain drives adds to the well-known list of advantages of the 24 V variants, to create real added value,; the possibility of a 230 V connection without an additional power supply directly on the drive. Comfortable, natural ventilation solutions with easy installation can be used anywhere – in schools, office buildings, hospitals, sports facilities, and even in your own home.

The Slimchain 230 V is fitted with a 230 V connection and a cable plug. The 230 V line-feed to the drive is concealed using GEZE console technology. A connecting terminal with a cable plug makes it easy to manually install or replace the drive during servicing. Thanks to easy service access, commissioning and parameter setting are particularly easy.

The 230 V chain drive is available in 200, 300, 500 and 800 millimetre gasket strips together with customisable intermediate lengths so that it can be adapted to a variety of window sizes and opening demands. With intelligent electronics, the drive stroke and the opening speed can be set individually.

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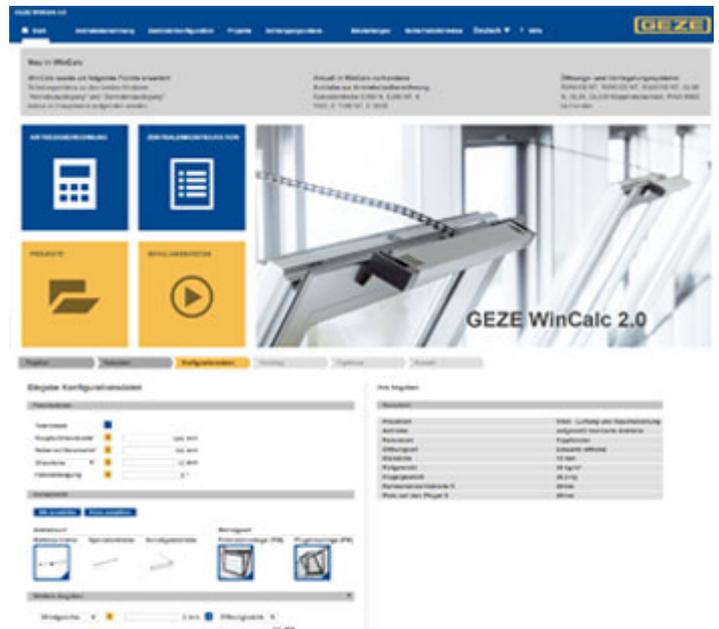
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Find the optimum window drive even more quickly and easily
GEZE WinCalc 2.0: the new configuration tool for window technology now offers more

The calculation program tackles complex calculations for the system design of a window and issues all applicable drive solutions. It enables the calculation of manual and electromotive ventilation windows, RWA windows and NSHEVs, as well as the design of appropriate emergency power control units. WinCalc therefore makes selecting optimum window drives easy and reduces the calculation required for the installation engineer. The new, advanced version WinCalc 2.0 provides additional calculation options and reduced calculation methodology in the new design. As a result, window drives can be projected with a freely configurable stroke and other specific features. Results are available more conveniently and faster, as a direct start-up is possible. The primary creation of a project is no longer mandatory. The things that the user is interested in are displayed straight away. The input values and the corresponding results are stored in the user profile. The calculation logs are available to download with the lists of items and they can be transferred to the basket in the GEZE SystemShop, enabling a direct order.



Picture: GEZE GmbH

Handling has been simplified: an optimised user interface ensures intuitive operation and quick navigation. The calculation speed of the system was also increased – a further step towards rapid results. WinCalc 2.0 can be used flexibly across different browsers, including Internet Explorer (from Version 10), Firefox, Chrome and Safari. It goes without saying that WinCalc 2.0 can also be used on a tablet.