

Additional information



Product information for code lock 12

2-page flyer containing all features
and technical details

Art. No. VF5011



Product information for transponder reader xpass™

2-page flyer containing all features
and technical details

Art. No. VF7006



Product information for radio system extent™

24-page brochure on the system,
its components and all features,
including prices.

Art. No. VF6017



Access Control

From single-family home to office complex

Presented by:



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TCS®



Electronic access control



... is the clever alternative to using a mechanical key to open a door. Interesting for the cost-conscious and comfort-conscious: Access control offers more than just security. It provides flexibility and user comfort, and reduces costs.

Numerical codes, transponder keys or cards show themselves to their best advantage in cases of loss or misuse: Codes are quick and easy to delete, electronic keys and cards are cheap to replace.

There is no need for the expensive and time-consuming replacement of mechanical cylinder locks. The memory can be flexibly overwritten with new codes or keys, respectively cards.

xpass™ even grants access using a car key.



Three technologies to choose from, with project-specific integration

TCS currently offers three different means of access control. Access via

- numerical codes
- electronic contact keys, or
- contact-free transponder keys.

Further methods can be integrated into TCS building systems for larger development projects.

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Variable system dimensions for differing applications

The access control systems are available in different sizes and offer several levels for integrating access control readers into the front-door station of the door intercom system.

The scalability of the systems enables a wide range of possible applications: on the front door of a residential building or as a comprehensive PC-controlled system in a company with numerous users or electronic keys.

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Product design: Access control as an integral part of building communication systems

Integrating access control into the front-door station of a door intercom system offers numerous advantages, not just visual, but also because it can be installed without taking up much space.

If the link-up to the door intercom system is incorporated during the planning phase, this system function can be integrated that much more elegantly.

Integrated solutions at the entrance to the building then benefit from the sturdy and protected construction and an attractive and compact product design.

So it is worthwhile including access control right from the system planning phase.

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Operating modes on the TCS:BUS® and software

TCS access control systems can be divided into two alternative operating modes, depending on their size: decentralised, or centralised with PC software at the core.

This PC software is used for the convenient and clear administration of access rights and for logging access.

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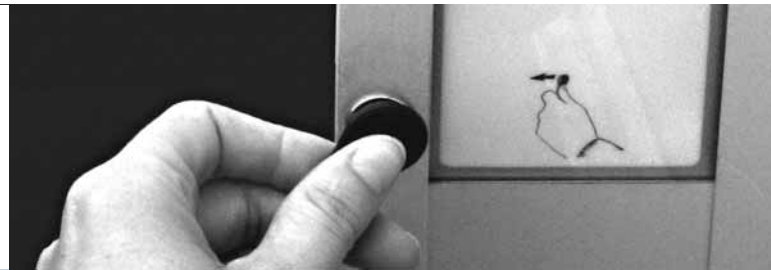


Three technologies to choose from, with project-specific integration



Keyless access control using four- or six-digit numerical codes

- Extremely flexible for fixed periods of access control or for granting access to frequently changing users
- Cost benefits for larger user groups through multiple assignment of numerical codes
- Can be used to trigger alternative functions by entering the code (e.g. switching lights)
- Design benefits of compact code locks for spacesaving installation outdoors or in indoor areas



Access control using the iKey contact key

- Cost-optimised, sturdy technology
- Cost benefits for medium and larger sized systems and when using several readers
- Ideal for enhancing mechanical lock systems – to prevent the wide distribution of system keys
- Can be combined with other access control technologies
- Can be integrated into PC-controlled systems



Contact-free access control using tKey transponders, tCards or car keys

- Contact-free access control for superb user convenience
- Advantages from the compact shape of the transponders (tCards are the size of bank cards)
- Design benefits – a company's CD can be printed on the tCards
- Design benefits from the flush integration of the reader into front-door stations
- xpass™ allows the additional use of suitable car keys



Integration and link-up in projects

- Biometrics
If specifically required for certain projects, fingerprint scanners can be integrated into the building communication system.
- Positioning and monitoring systems
TCS can integrate new RFID transponder technology for industry-specific positioning and monitoring solutions, e.g. in commercial buildings or care (assisted living) facilities.

System size

- Up to 64 code locks can be operated on each system
- Up to 3 resp. 10 codes maximum for each code lock
- max. 6 digits per code

Configuration and maintenance

- Simple, directly at the code lock by means of a master code

Convenience

- Can be integrated into front-door stations on door intercom systems
- Visual and acoustic acknowledgement of code entry
- Extremely flexible for temporary code assignments
- Optional surface or flush mounting

Safety

- No risk of loss or theft as with conventional keys
- Generally immune from tampering since the door release is triggered via TCS:BUS protocol
- Some systems with tamper alarm to protect against manipulation
- Sturdy and hard-wearing product designs made from aluminium

System sizes

- Low-cost equipment for medium to larger sized systems with up to 89, 250 or 1000 iKeys, depending on the operating mode

Configuration and maintenance

- Manual, on the iKey reader, with programming mode set on the control unit
- Using access control software on a laptop, key reader
- Using access control software on a PC, key reader

Convenience

- Visual and acoustic acknowledgement of key scan
- Optionally available with nameplate
- Can be integrated into front-door stations on door intercom systems
- Can be surface or flush mounted, or free standing
- iKeys as key rings

Safety

- Unique electronic keys assigned to specific individuals
- Generally immune from tampering since the door release is triggered via TCS:BUS protocol
- The programming mode on the control unit in the indoor electrical distribution protects against tampering
- Sturdy and hard-wearing product designs

System sizes

- For medium and larger sized systems with up to 89, 250 or 1000 iKeys, depending on the operating mode

Configuration and maintenance

- Manual, on the transponder reader (control unit set to programming mode)
- Temporary, via software on a laptop and key reader
- Permanent, via PC administration and key reader

Convenience

- Contact-free key scanning
- Visual and acoustic acknowledgement of key scan
- Optionally available with nameplate
- Can be integrated into front-door stations on door intercom systems
- Can be surface or flush mounted, or free standing
- Different types of keys available: tKeys as key rings or tCards in compact size of bank cards (125 kHz frequency); with xpass™ even suitable car keys (120-140 kHz frequ.)

Safety

- Unique electronic keys assigned to specific individuals
- The programming mode on the control unit in the indoor electrical distribution protects against tampering
- Sturdy product designs, usually made from aluminium

Projects

Various technologies and functions can be integrated into TCS building systems for larger development projects. The development of appropriate interfaces allows a TCS building system to be linked up to surrounding systems, such as alarm systems, networks or time recording systems.

Any questions?

Our TCS service agent in your region is available to offer support, especially when commissioning large and complex systems.

All products are documented on the web page as "Planning aid" and "Tender templates" for the planning phase and "Product information" for the installation phase.

Further information is available on the internet at: www.tcs-germany.com



Variable system dimensions for differing applications



Small-system access control

xpass™ and code:pack are TCS components for easy installation of access control systems for everyday use and, as such, offer quick and practical solutions for residential and commercial buildings.



Upgrading existing door intercom systems.

The demands in entrance areas are constantly changing. The need for safety is growing, especially in multi-family homes and commercial buildings. If a TCS door intercom system is already installed in such buildings, it can be easily upgraded to include decentralised access control.



Integration

When planning a door intercom system, access control can be directly integrated into the front-door station.



Access control as a central system function

Central operation by concierge is worth considering when the system requirements are substantial, given the large number of keys or readers. In this case, access rights are administered on a PC using PCiACC access control software. The software can be used to draft rights profiles and to log usage resp. presence.

xpass™ transponder reader

Apart from the well-known tCard transponder cards and tKey transponder keys, the xpass™ transponder reader for stand-alone operation can also be used by car keys to release doors. The xpass™ pack comes complete with 3 tKeys.

code:pack system pack

codelock12 enables access control by means of numerical codes. Designed for rapid surface mounting, and with an installation height of just 12 mm, this code lock can be integrated into any surroundings, just like a switch, and can also be used indoors.

Upgrading

The identically designed iPAKL or tPAKL readers or the cPAKL code lock are especially suited for upgrading door intercom systems using the PAK front-door station series (up to 8 residential units).

Benefits of upgrading

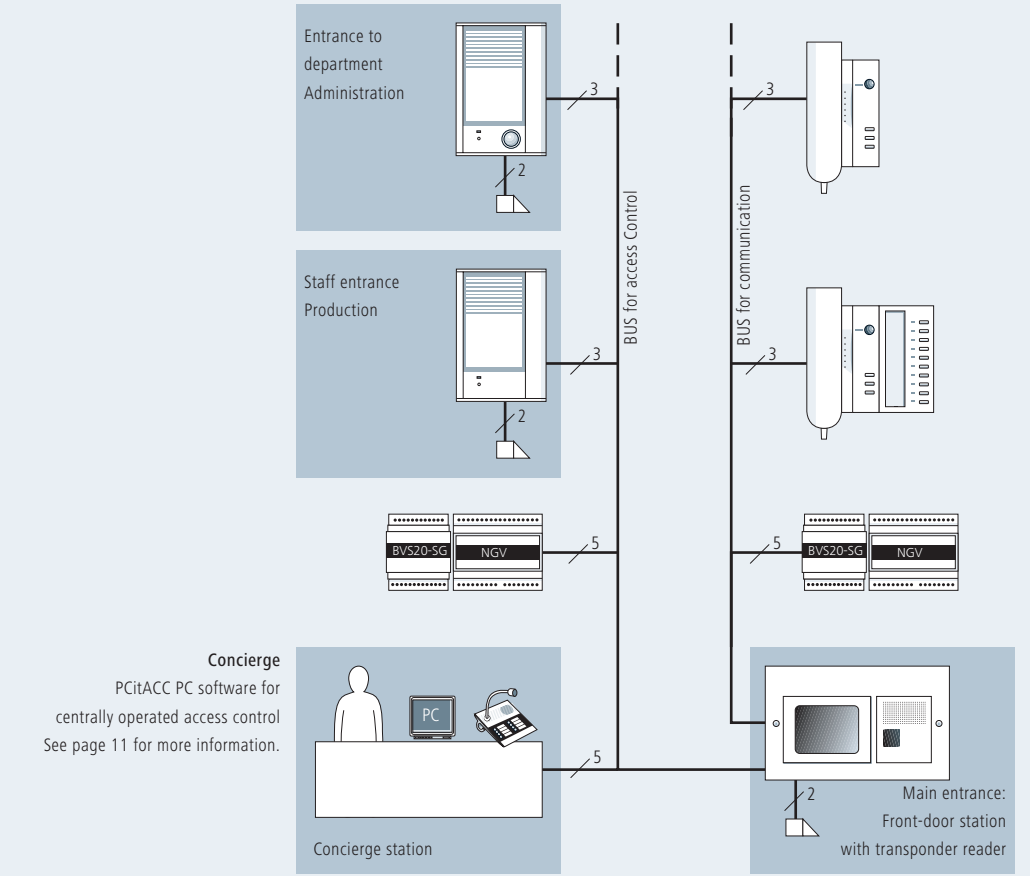
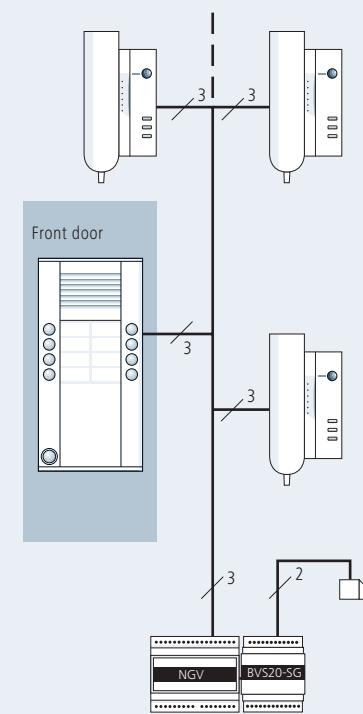
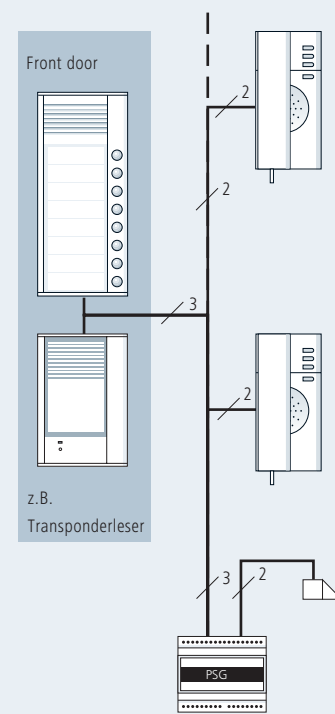
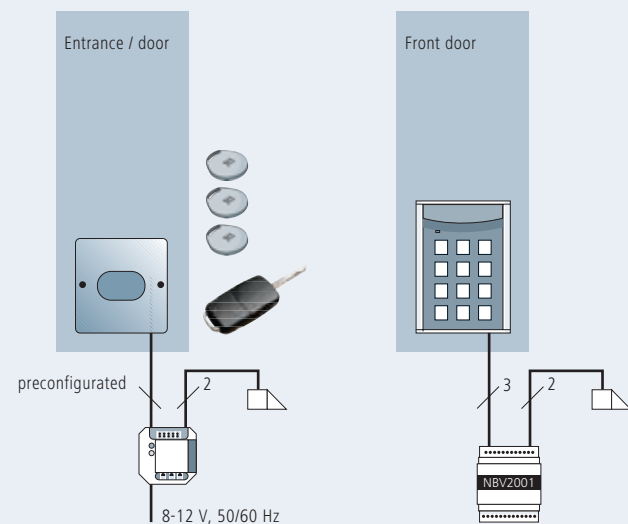
Any subsequent installation does not need to look bitty. Door intercom systems using the PAK front-door station series can be upgraded in the same design, with three access control technologies to choose from – by means of simple and quick surface mounting. In addition, the supply to these door intercom systems can be designed with sufficient power to ensure that any subsequent upgrading does not require any additional power packs, thus reducing the costs of any subsequently installed access control to a minimum.

Benefits of integration

Integrating access control into the front-door station of a door intercom system brings similar entry functions together, thus offering visually clear operation. Architects, above all, appreciate the benefits of these compact and space-saving designs.

Integration

Built-in readers or code locks can be integrated into (display) front-door stations on door intercom systems. The iTPDS or iTPES series are available for medium-sized systems up to 10 residential units.





Product design

Code locks and readers

Door communication comprising front-door stations with integrated access control



code12	cPAKL	iPAKL	tPAKL	Series PDS/PES with reader for iKeys/tKeys	Posts PSD (VP)SE with reader for iKeys
Code lock	Code lock	Reader for scanning iKeys	Reader for scanning tKeys/tCards	for up to 89, 250, 1000 iKeys/tKeys or tCards	for up to 89, 250, 1000 iKeys/tKeys or tCards
for up to 10 codes	for up to 10 codes	for up to 89, 250, 1000 iKeys	for up to 89, 250, 1000 tKeys/tCards	for surface-mount	free-standing or surface-mount
for surface-mount	for surface-mount	for surface-mount	for surface-mount	for up to 3 homes	for up to 5 or 20 homes
H 114 mm x W 88 mm x D 12(19) mm	H 153 mm x W 104 mm x D 16 mm	H 153 mm x W 104 mm x D 16 mm	H 153 mm x W 104 mm x D 16 mm	H 280-318 mm x W135 mm x D 20 mm	H 1636 mm x W 135 mm x D 71 mm

Front-door stations with displays for door communication with integrated access control



NEW!
The AD3 also in stainless steel.

Display AD1	Display AD2	Display AD3	Display AD4
Front-door station with code lock	Front-door station with code lock	Front-door station with code lock or integrated reader	Front-door station with integrated reader
for up to 3 codes	for up to 3 codes	for up to 3 codes or for up to 89, 250, 1000 iKeys/tKeys/tCards	for up to 89, 250, 1000 iKeys/tKeys/tCards
for flush-mount	for flush-mount	surface- and flush-mount	surface- and flush-mount
for up to 60 or 200 homes	for up to 200 homes	for up to 1000 homes	for up to 1000 homes
H 320 - 635 mm x W 150 mm x D 3mm	H 320 - 635 mm x W 150 mm x D 3 mm	H 420 - 650 mm x W 200 mm x D 3 mm (horizontal or vertical)	H 480 mm x W 760 mm x D 123 / 8 mm (surface- / flush-mount)



Product design



Hamburg_ "Barmer Ersatzkasse" office building



"Berliner Tor Center" office building

Built-in readers for use in display front-door stations or front panels

The built-in readers were especially designed for existing front panels. Their compact installation dimensions offer alternative planning and mounting flexibility.

suitable for installation in switch boxes



NEW!

xpass™ from TCS.

xpass™ turns a car key into a front door key!

A programming card can be used to teach the reader to recognise any type of transponder key – it doesn't get any easier than that!



Built-in reader for iKeys (in switch design)	Built-in reader for iKeys	Built-in reader for tKeys/tCards	xpass™	PCitMini	itL232 key reader	Maintenance Package	PC1-I user interface	PCitACC
Reader for scanning iKeys for up to 89, 250, 1000 iKeys	Reader for scanning iKeys for up to 89 WE, 250 WE, 1000 iKeys	transponder reader for scanning tKeys or tCards for up to 89, 250, 1000 tKeys/Cards	universal transponder reader for scanning tKeys or tCard for up to 100 tKeys/tCards/car keys	PC software for reading key data (as part of the TCS maintenance pack, the software is available with either RS232 or USB interface).	for reading i/tKeys, tCard into the PC software	CDROM + PC-Interface (alternativ with RS232- or USB-interface)	for transmitting key data to readers (Maintenance pack CDROM + PC interface (with RS232 or USB interface)	PC user programme for managing key data and administering access rights profiles (only approved in connection with the PC1-I user interface).
built-in in switch boxes	built-in behind front panels	built in behind front panels	flush-mount in one gang box					
plastic	synthetic glas in black	synthetic glas in black	plastic in silver or white					
H 83 mm x W 83 mm x D 10 mm	H 115 mm x W 89 mm x D 45 mm	H 115 mm x W 89 mm x D 45 mm	reader H 80 mm x W 80 mm					

Operating modes on the TCS:BUS® and software

Decentralised system operation

On decentrally operated access control systems an electronic key is verified locally by the relevant reader and, if positively identified, the door release is triggered. Up to 250 keys can be used on the readers in this operating mode. In the case of smaller systems, the access control and door communication systems can share the same wiring.

PCitMini PC software is used for the simple and clear administration of the key data on a PC.

Since the readers have autonomous evaluation and access control is restricted to the basic function, these systems offer sturdy functional reliability.

Centralised system operation

Centralised operation is especially recommended for larger systems comprising a large number of users or readers.

In this case a central PC (rather than a local reader) verifies the access rights of an electronic key. The readers only serve to transmit the key data to the PCitACC PC software. These are then verified centrally.

Given the large number of users and correspondingly comprehensive exchange of data, this type of access control requires its own cables. The PCitACC software can be used to set up individual access rights profiles for specific rooms and specific time periods for individual keys. This centralised operation can minimise the time and effort spent on administration, especially in larger systems.

PCitMini

PC software for decentralised operation

- Captures and collates key data for individual readers
- Transmits key data to readers using the PC1-I user interface



PCitACC

PC software for centralised operation

- Administers time-specific, person-specific and location-specific access profiles
- Logs the usage and presence of individuals

