



Electronic access control systems are a growth market. There are a growing number of reasons to opt for the modern alternative to the lock and key: Electronic access control addresses the increasing demand for greater security – to safeguard our property, but also as a way of protecting employees, goods, data and corporate secrets.

At the same time, it offers far greater convenience than mechanical locking systems, both in terms of everyday use and also management. It puts an end to worries about the circulation of copied keys, and even the loss of a key is no longer a major cause for concern.

Also in terms of the functional scope they offer, electronic locking systems are streets ahead of their mechanical competitors. From securing a single door through to complex user and access rights management in large building complexes, they fulfil every conceivable requirement with outstanding flexibility.

And when the access control system comes from Siedle, it integrates seamlessly into the door communication concept, helping to prevent an unsightly accumulation of random devices and installations and creating a sophisticated impression in the entrance area.

New in 2006

Controller with Ethernet interface (TCP/IP):

- Integrated web server
- Configuration and management without specific software
- Link to LAN or Internet
- Vastly increased functional scope

Access control

Access control Stand Alone

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Access control with entry controller EC 602

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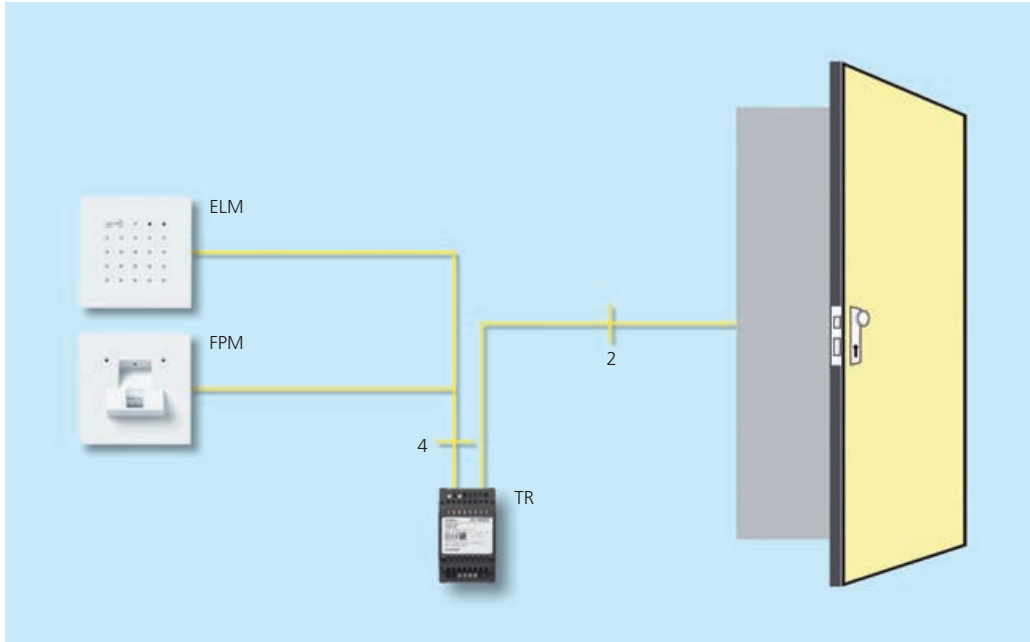
Access control with door controller IP TCIP 603

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Access control in stand-alone operation Application and performance features



Performance features

Siedle Fingerprint:

- * Up to 100 users
- * Up to 5 user groups

Convenient

- * No more lost, mislaid or forgotten keys
- * Always "at hand" without searching and rummaging
- * An end to heavy, bulky key rings

Secure

- * Eliminates theft and copying of keys
- * No usable traces left behind
- * Identification of "live" finger (biodection)

Reliable

- * Unrestricted outdoor use under all climatic conditions
- * Ergonomic finger guidance
- * Integrated lighting

Electronic Key:

- * Up to 9 keys
- * Simple application
- * Ideal for children and the elderly
- * Keys in the form of key ring tags or cards
- * No need to exchange locking system due to loss of keys

Used in isolation, the system controls one door. In a single-family home, for instance, this would be the entrance or the garage, while in commercial properties it could be the access point to sensitive areas such as archives, laboratories or data processing rooms.

Installation, mounting, commissioning and programming are simply performed by the installer and inexpensive for the user. The system is supplied ready for operation including a door release relay. In addition, it requires a power supply and door release connection (see illustration) – nothing more.

Both of these can be dispensed with if the access control unit is integrated in a Siedle communication system – in which case it uses the same installation. In a Vario system, it can be simply retrofitted provided the necessary module slot is available. Programming and user management require neither a PC nor any other tool, and can be performed simply by users themselves.

For stand-alone operation without a controller, the fingerprint recognition system Siedle Fingerprint and the Electronic Key transponder system are available, for integration in either the Siedle Vario or Siedle Steel system.



ELM 611-0 W white
ELM 611-0 SM silver metallic
ELM 611-0 TM titanium metallic
ELM 611-0 GM graphite br. metallic
 Electronic key reading module as a contactless access control system with LED function. As reading unit of electronic keys or cards for opening doors, gates etc.
 Suitable for:
 • “stand-alone” mode, a maximum of 9 electronic keys or cards can be used.
 • in conjunction with entry controller EC 602-... a maximum of 999 electronic keys or cards can be used.
 Programming via PRI 602-0 and PRS 602-...
 • in conjunction with door controller TCIP 603-... a maximum of 500 users possible (larger systems on demand)
 Programming via web browser (e.g. Internet Explorer)
 Operating voltage 12V/AC from TR 602-...
 Current consumption max. 120 mA
 Contact load 24V/1 A
 Ambient temperature -20°C to + 70°C
 Dimensions: 99 x 99 mm



FPM 611-01 W white
FPM 611-01 SM silver metallic
FPM 611-01 TM titanium metallic
FPM 611-01 GM graphite brown metallic
 Fingerprint module as an access control system with function LEDs. Optionally “stand-alone” or in conjunction with Entry controller EC 602-... or door controller TCIP 603-... (can be programmed via PRS 602-0). Reading unit for recognition of scanned-in fingerprints for opening doors, gates, etc. A maximum of 100 users (user fingerprints) can be entered.
 Suitable for:
 • “stand-alone” mode
 • in conjunction with entry controller EC 602-...
 Programming via PRI 602-0 and enclosed PRS 602-...
 • in conjunction with door controller TCIP 603-...
 Programming via web browser (e.g. Internet Explorer)
 • Operating voltage 12 V/AC from TR 603-...
 • Current consumption max. 250 mA
 • Contact load max. 24V/2 A
 • “ON” time in stand-alone mode fixed at 3 seconds.
 • Protection system IP 54 (when mounted)
 • Ambient temperature -20°C to + 55°C
 Dimensions: 99 x 99 x 17 mm

Remark

We recommend reading in the prints of at least 2 fingers per person to ensure that access is still possible in case of injury to one finger.

A maximum of 5 groups can be formed in “stand-alone operation”.
 It is not possible to delete one fingerprint of a group, i.e. only the entire group can be deleted.

It is possible, particularly with children or the elderly, that fingerprints cannot be successfully scanned-in due to absence or insufficient biometric characteristics.



EK 601-0
 Electronic key for use in conjunction with Electronic key reading module ELM 611-0. Each electronic key is unique, completely encapsulated and works without battery. The EK 601-0 can only be destroyed by inflicting mechanical damage.
 Colour: signal yellow RAL 1003
 Packet of 3 or 10 pcs.
 Dimensions: 57 x 25.2 x 9.5 mm
Note
 If the EK 601-... is fastened to a car keyring, it may disturb the immobilizer.



EKC 601-0
 Electronic key card for use in conjunction with the Siedle Electronic key reading module ELM 611-0. Each electronic card is unique, completely encapsulated and works without battery. The EKC 601-0 can only be destroyed by inflicting mechanical damage.
 Packet of 3 or 10 pcs.
 Dimensions: 85 x 54 x 1 mm



TR 603-0
 Transformer in 3-grid switch panel housing to supply users with 12 V AC. On the secondary side TR 603-0 is short circuit proof
 Specifications
 • T 40
 • Primary: 230 V AC +/-10%, 50-60 Hz max. 22 VA
 • Secondary: 12 V AC, max. 1.3 A
 • Protection system: IP 30
 • Dimensions W x H x D
 53.5 x 89 x 60 mm

Specified dimensions

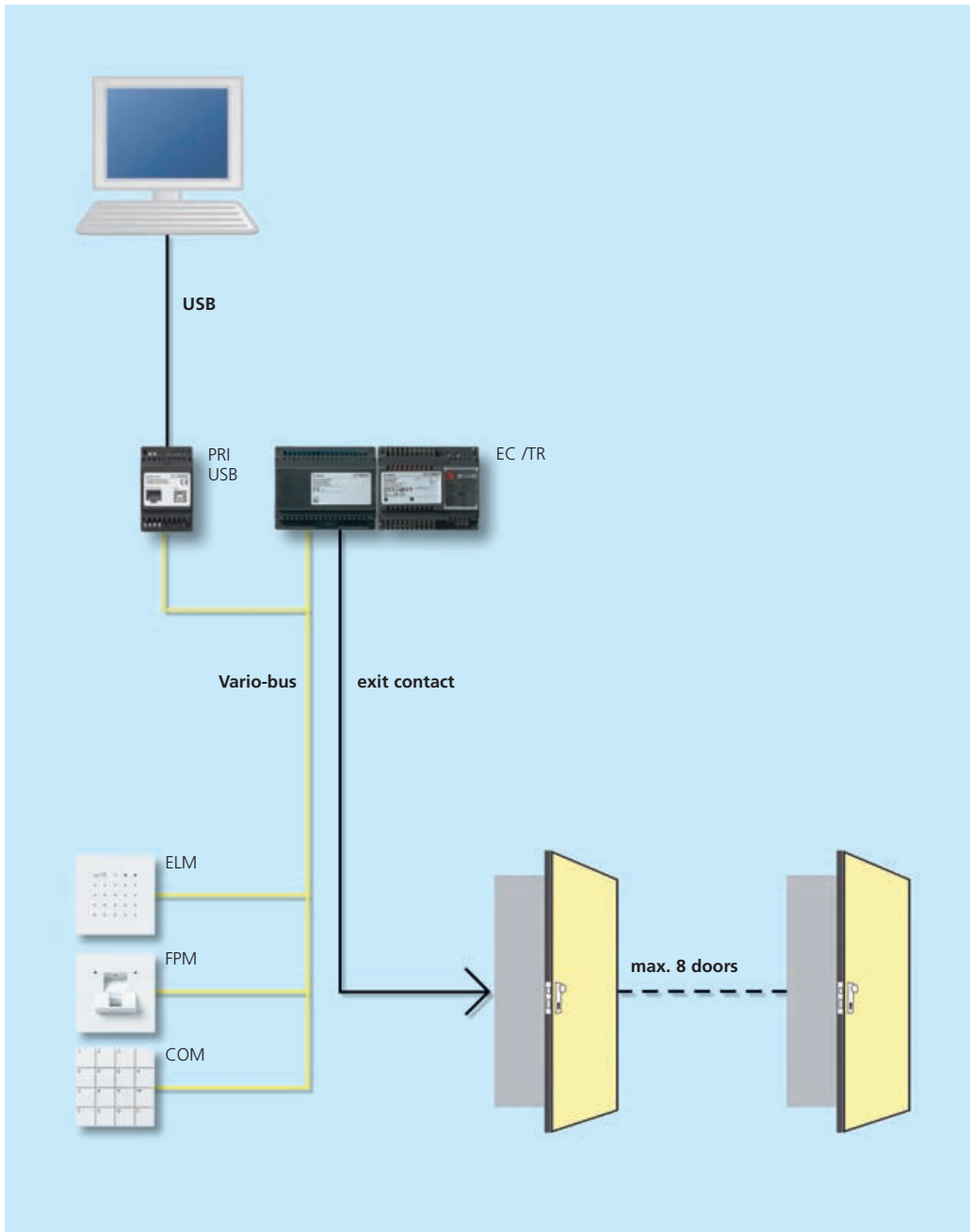
Width x height x projection height over surrounding frame

The Vario modules 611-... cannot be used as individual modules without flush/surface-mount housing.

Note:

All Vario modules correspond to IP 54 when mounted.

Access control with entry controller EC 602 Application and performance features



Where requirements exceed simple control of a single door, the entry controller EC 602 is capable of networking up to eight doors. Typical fields of application include residential complexes with several entrances or commercial and office blocks of all kinds.

The controller carries out a match between the databases of the networked units. Codes only have to be programmed once for all connected doors, and fingerprints or cards only need to be read in (or deleted again) once. The central user management system considerably simplifies management where several entrances are involved, particularly as it is performed with optimum convenience by means of software on a PC. Logging is also possible via the PC interface. Alongside the door, the controller also operates additional switching contacts if required by means of code or fingerprint entry, for instance the outside light, the alarm system or a silent alarm.

The entry controller EC 602 is capable of networking the fingerprint recognition system Siedle Fingerprint, the Electronic Key transponder system and the numerical code lock, also in hybrid configurations.

Performance features

- Networking of up to 8 doors possible
- Up to 999 keys/cards or 100 fingerprints
- Adjustable door unlocking time
- Up to 8 free switching contacts
- Logging by means of Vario bus protocol software VBPS 602 and PC interface
- Convenient programming by means of PC and programming software PRS 602



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ELM 611-0 SM silver metallic
ELM 611-0 TM titanium metallic
ELM 611-0 GM graphite br. metallic
 Electronic key reading module as a contactless access control system with LED function. As reading unit of electronic keys or cards for opening doors, gates etc.
 Suitable for:
 • "stand-alone" mode, a maximum of 9 electronic keys or cards can be used.
 • in conjunction with entry controller EC 602-... a maximum of 999 electronic keys or cards can be used.
 Programming via PRI 602-0 and PRS 602-...
 • in conjunction with door controller TCIP 603-... a maximum of 500 users possible (larger systems on demand)
 Programming via web browser (e.g. Internet Explorer)
 Operating voltage 12V/AC from TR 602-...
 Current consumption max. 120 mA
 Contact load 24V/1 A
 Ambient temperature -20°C to + 70°C
 Dimensions: 99 x 99 mm



FPM 611-01 W white
FPM 611-01 SM silver metallic
FPM 611-01 TM titanium metallic
FPM 611-01 GM graphite brown metallic
 Fingerprint module as an access control system with function LEDs. Optionally "stand-alone" or in conjunction with Entry controller EC 602-... or door controller TCIP 603-... (can be programmed via PRS 602-0). Reading unit for recognition of scanned-in fingerprints for opening doors, gates, etc. A maximum of 100 users (user fingerprints) can be entered.
 Suitable for:
 • "stand-alone" mode
 • in conjunction with entry controller EC 602-...
 Programming via PRI 602-0 and enclosed PRS 602-...
 • in conjunction with door controller TCIP 603-...
 Programming via web browser (e.g. Internet Explorer)
 • Operating voltage 12 V/AC from TR 603-...
 • Current consumption max. 250 mA
 • Contact load max. 24V/2 A
 • "ON" time in stand-alone mode fixed at 3 seconds.
 • Protection system IP 54 (when mounted)
 • Ambient temperature -20°C to + 55°C
 Dimensions: 99 x 99 x 17 mm

Remark

We recommend reading in the prints of at least 2 fingers per person to ensure that access is still possible in case of injury to one finger.

A maximum of 5 groups can be formed in "stand-alone operation".
 It is not possible to delete one fingerprint of a group, i.e. only the entire group can be deleted.

It is possible, particularly with children or the elderly, that fingerprints cannot be successfully scanned-in due to absence or insufficient biometric characteristics.



EK 601-0
 Electronic key for use in conjunction with Electronic key reading module ELM 611-0. Each electronic key is unique, completely encapsulated and works without battery. The EK 601-0 can only be destroyed by inflicting mechanical damage.
 Colour: signal yellow RAL 1003
 Packet of 3 or 10 pcs.
 Dimensions: 57 x 25.2 x 9.5 mm
Note
 If the EK 601-... is fastened to a car keyring, it may disturb the immobilizer.



COM 611-01 W white
COM 611-01 SM silver metallic
COM 611-01 TM titanium metallic
COM 611-01 GM graphite br. metallic
 The code lock module as an input unit in conjunction with the Siedle Vario bus.
 • in conjunction with entry controller EC 602-... for setting control function and access control codes.
 Programming via PRI 602-... and enclosed PRS 602-...
 • in conjunction with door controller TCIP 603-... for setting control function and access control codes.
 Programming via web-browser (e.g. Internet Explorer)
 • in conjunction with call controller RC 602-... for setting door calls.
 C-button for deleting incorrect inputs as well as a door release button for direct controlling. This door release function can additionally be controlled by a time switch provided by the user. An integrated LED can be used via an external floating contact as a status indication.
 Operating voltage 12V/AC from TR 603-...
 Current consumption max. 100 mA
 Ambient temperature -20°C to +70°C
 Dimensions: 99 x 99 mm



EKC 601-0
 Electronic key card for use in conjunction with the Siedle Electronic key reading module ELM 611-0. Each electronic card is unique, completely encapsulated and works without battery. The EKC 601-0 can only be destroyed by inflicting mechanical damage.
 Packet of 3 or 10 pcs.
 Dimensions: 85 x 54 x 1 mm

Access control with entry controller EC 602

System components accessories



EC 602-02

Entry controller as an electronic evaluating circuit and control unit in conjunction with Siedle code lock module COM 611-..., electronic-key reading module ELM 611-... or fingerprint module FPM 611-01. The EC 602-... is able to manage up to 8 COM 611... 8 ELM 611-... and 8 FPM 611... units simultaneously. The EC 602-... provides two changeover contacts as a switching output as well as two inputs. With the ECE 602-... it can be extended by a further 6 working contacts. Display-aided programming using the integrated buttons or via programming interface PRI 602-... at the PC.

Operating voltage 12 V/AC from e.g. TR 602-...

Contact load 24 V/2 A

Current consumption max. 150 mA with ECE 602-... max. 400 mA

Protection system IP 20

Ambient temperature 0° C to +40° C

Dimensions: 107 x 89 x 60 mm (6-grid housing for switch panel mounting)



TR 602-01

Transformer in a 6-grid switch panel housing. For call button module lighting with tubular lamps for more than 4 TLMs or for more than 16 TB 611-01 units. The transformer secondary side is fitted with a thermal fuse.

Primary: 230 V AC, 50 Hz, +6%-10%, secondary: 12 V AC max. 2.5 A

Ambient temperature 0° C to +40° C

Protection system IP 20

Dimensions: 107 x 89 x 60 mm

TR 603-0

Transformer in 3-grid switch panel housing to supply users with 12 V AC. On the secondary side TR 603-0 is short circuit proof

Specifications

• T 40

• Primary: 230 V AC +/-10%, 50-60 Hz max. 22 VA

• Secondary: 12 V AC, max. 1.3 A

• Protection system: IP 20

• Dimensions W x H x D

53.5 x 89 x 60 mm



ECE 602-0

Entry controller extension in 3-grid switch panel housing. Upgrades the EC 602-... by a further 6 working contacts. This allows up to 8 control functions to be executed via a COM 611-... or ELM 611-0.

• Supply via the EC 602-...

• Contact load 24 V/2 A

• Current consumption EC and ECE together max. 400 mA

• Protection system IP 20

• Ambient temperature 0° C to 40° C

• Dimensions: 53.5 x 89 x 60 mm

ZRCE 602-0

Ribbon cable (appr. 35 cm long) with plug at each end. For connection of extension units CCE/RCE/ECE 602-... with the relevant downstream unit with a distribution line skip.

PRS 602-0

Programming software. Runs under Windows 2000, XP or higher, for programming the RC/RCE 602-... or EC/ECE 602-... in conjunction with an IBM-compatible PC via an RS 232 or USB interface. For programming, the RC/RCE 602-... either the PRI 602-... or a chip card reader is required.

The EC/ECE 602-... is programmed using the PRI 602-...

VBPS 602-0

Vario bus logging software for monitoring control functions executed via EC/ECE 602-..., e.g. access control. Up to 4 EC 602-01 units can be monitored simultaneously using the ECE.

System conditions:

• IBM-compatible PC

• Operating system from WIN 2000, XP

Per EC 602-01 programming interface

PRI 602-0



PRI 602-0

The programming interface connects an IBM-compatible PC with the Vario bus system. The electronic conversion circuit is equipped with a bi-lateral connecting cable from Sub-D plug to 6-pin telecom/Western connecting plug (total length appr. 3.5 m). The relevant programming software PRS 602-... which runs under Windows 95 or higher, is provided.

A 6-pin telecom/Western junction box with a connection to the Vario bus system is required on site.

PRI 602-0 USB

The programming interface PRI 602-... USB in a 3-grid switch panel housing connects a Windows PC via the USB port to the Siedle In-Home bus. Connection to line rectifiers BNG 650-... and BVNG 650-...

The bus programming software BPS 650-... is included in the scope of supply.

Supply 12 V AC via screw-type terminals or via Western socket from the In-Home bus.

Interface to the In-Home bus via 8-pin Western socket or via screw terminals

Dimensions W x H x D

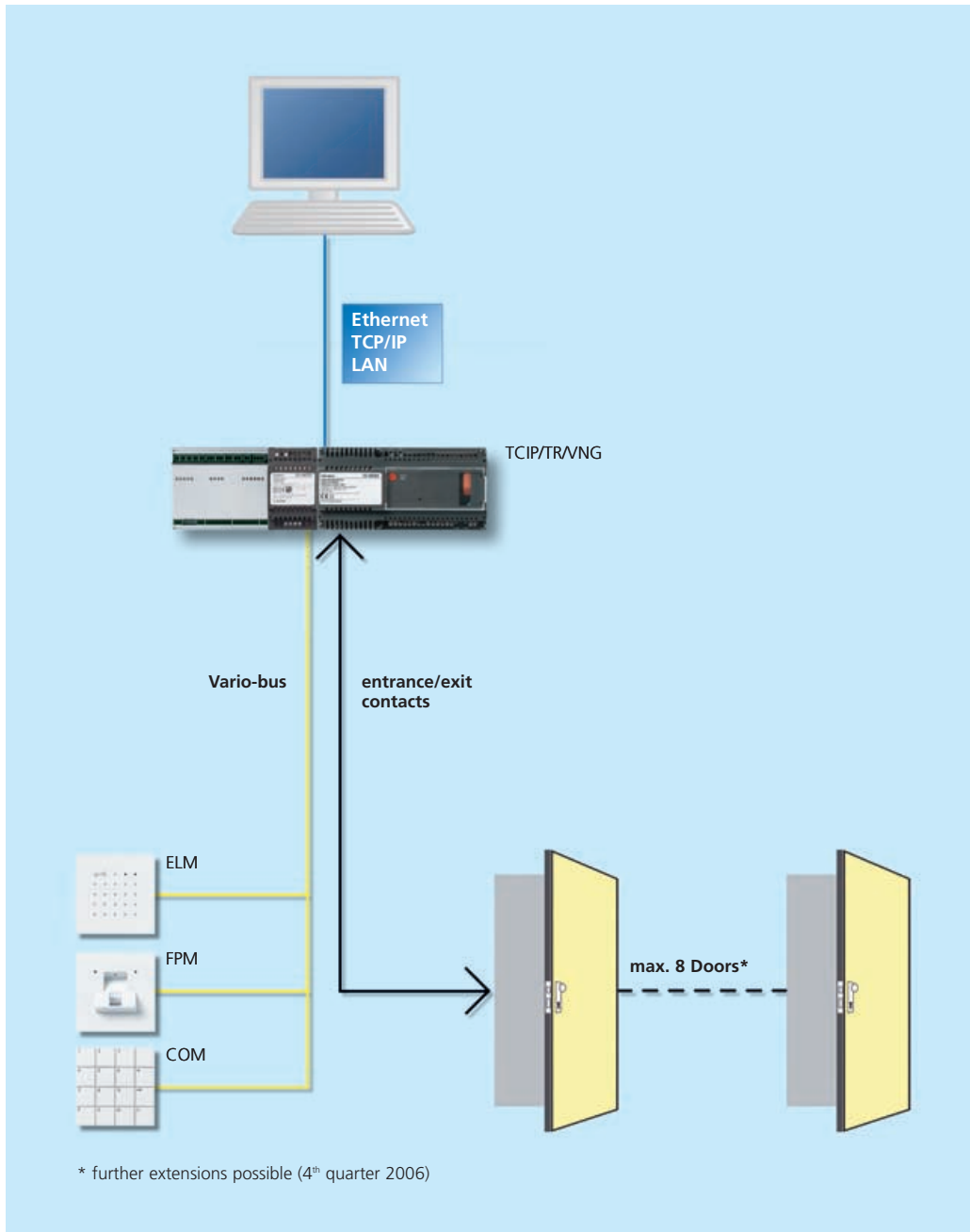
53.5 x 89 x 60 mm

Available from Mai 2006.

With beginning of the 3th quarter 2006, the programming of the Vario-bus (version 4.00) is will be possible additionally

Access control with door controller IP TCIP 603

Overview, application and performance features



In conjunction with door controller IP, the Siedle access control system is capable of complying with high-level specifications in medium-sized buildings. While in terms of its price, input and complexity, the system remains easily manageable, its functional versatility extends to the field of professional access control requirements. The Ethernet interface and integrated Webserver make this a universally applicable system. Typical fields of application include medium-sized companies requiring different time zones and graduated access entitlement levels for different user groups. The system allows, for instance, general access to all rooms to be afforded at any time to senior management members, while IT experts may enter the data processing room between 8.00 and 17.00 hours, and cleaning staff only from 17.00 to 18.00 hours. The system logs all events and keeps an automatic attendance list. For areas involving stringent security restrictions, several access control systems may be used in combination, for example fingerprint recognition as well as a code or card. The door controller IP is capable of networking the fingerprint recognition system Siedle Fingerprint, the Electronic Key transponder system and the numerical code lock, also in hybrid configurations.

Performance features

- Networking of up to 8 doors possible
- Ethernet interface 10/100 BaseT
- System and software-independent thanks to integrated Webserver
- Multiple languages
- Up to 500 users
- Management of access rights by users/access groups
- Graduated user profile depending on access rights and sphere of work
- Flexible time profiles, 20 time profiles each with 3 time zones per day
- Time synchronization via NTP server
- Public holiday / vacation calendar
- Event memory for 1000 entries
- Attendance/absence list
- "Anti pass back" (prevents second access attempt before previous exit)
- Enhanced security by combining identification methods
- Adjustable door unlocking time
- Additional door unlocking time, e.g. for disabled users
- Variable "Door open" time, e.g. during opening hours

- Programmable inputs for evaluation of the door release monitoring contact or for door release (request to exit)
- "Door open" monitoring
- Entrance / exit reader possible

* further extensions possible (4th quarter 2006)

Access control with door controller IP TCIP 603

System components accessories



ELM 611-0 W white
ELM 611-0 SM silver metallic
ELM 611-0 TM titanium metallic
ELM 611-0 GM graphite br. metallic
 Electronic key reading module as a contactless access control system with LED function. Optionally "stand-alone" or in conjunction with Entry controller EC 602-... or door controller IP TCIP 603-...
 Dimensions: 99 x 99 mm
 For a detailed description and specifications, see page 187



COM 611-01 W white
COM 611-01 SM silver metallic
COM 611-01 TM titanium metallic
COM 611-01 GM graphite br. metallic
 The code lock module as an input unit for setting door call and control function codes in conjunction with entry controller EC 602-... or with door controller IP TCIP 603-...
 Dimensions: 99 x 99 mm
 For a detailed description and specifications, see page 187



EK 601-0
 Electronic key for use in conjunction with electronic key reading module ELM 611-0. Each electronic key is unique, completely encapsulated and works without battery. The EK 601-0 can only be destroyed by inflicting mechanical damage.
 Colour: signal yellow RAL 1003
 Packet of 3 or 10 pcs.
 Dimensions: 57 x 25.2 x 9.5 mm
Note
 If the EK 601-... is fastened to a car keyring, it may disturb the immobilizer.



TCIP 603-0
 Door-controller-IP TCIP 603-0 as a control unit for management of access entitlement in private homes and commercial properties. It is operated directly via a PC network (Ethernet standard 10/100 Mbit). Central management in the network via optional PC. No additional software is required for its operation.

- Actuation possible via code lock module COM 611-..., electronic key reading module ELM 611-... or fingerprint module FPM 611-....
- Password protected
- Logging of access and system data
- Present/absent list as log
- 5 entrances (e.g. door contacts)
- 4 exits (e.g. door release with FSM and SCE extendable by a further 3 entrances and exits)
- Connection to Ethernet via RJ45 interface
- 5 LEDs for status display of entrances
- 20 different time models possible
- Max. 40 access groups
- Management of up to 8 doors
- Max. 500 users with 4 characteristics per user such as fingerprint, card or code
- Variable public holiday and vacation profiles
- Automatic time changeover (summer time / normal time)

Specifications:
 Supply 8-36 V DC max. 500 mA
 Switching contact 12 V max. 10 A
 Dimensions: 131 x 111 x 52 mm
 Available from Mai 2006.



EKC 601-0
 Electronic key card for use in conjunction with the Siedle electronic key reading module ELM 611-0. Each electronic card is unique, completely encapsulated and works without battery. The EKC 601-0 can only be destroyed by inflicting mechanical damage.
 Packet of 3 or 10 pcs.
 Dimensions: 85 x 54 x 1 mm



FPM 611-01 W white
FPM 611-01 SM silver metallic
FPM 611-01 TM titanium metallic
FPM 611-01 GM graphite br. metallic
 Fingerprint module as access control system with function LED. Optionally "stand-alone" or in conjunction with Entry controller EC 602-... or door controller IP TCIP 603-...
 Dimensions: 99 x 99 x 17 mm
 For a detailed description and specifications see page 187

Even more extensive networked solutions can be implemented with effect from the 4th quarter 2006, by cascading several TCIP 603-0 units using special firmware via a central server PC. This opens up practically unrestricted application in respect of

- the number of doors,
- the number of users,
- the number of time profiles,
- the size of the event memory.

For consultation, planning and quotation, please contact +49 7723 63-378 or apply to one of our international agencies, see page 322

**VNG 602-02**

Video line rectifier in a 10-grid switch panel housing for central supply of video door intercom systems. Fitted with function LED:
 Primary 230 V 50/60 Hz, $\pm 10\%$
 Secondary 30 V DC, 1.1 A regulated
 Protection system IP 20
 Dimensions: 180 x 89 x 60 mm

**FSM 740-0**

Control and remote switching module used in conjunction with TCIP 603-0 in a 6-grid switch panel housing with 3 inputs and 2 outputs for initiation/activation of control and switching functions or placement of messages. 2 floating changeover contacts and 3 floating sensor/control inputs freely programmable. Can be used as an offset switching unit for door releases.

Contact upgrade possible using SCE 640.0

Update capability via PRI 602-0

Operating voltage:

22-24 V DC/ 20-60 mA

Outputs:

230 V AC/ 6 A or 42 V DC/ 2A

Dimensions: 107 x 89 x 60 mm

Available from Mai 2006.

**SCE 640-0**

Switching controller extension in a 3-grid switch panel housing with 8 floating contacts.

Connection via ribbon cable directly to control units such as LC 640-.... or SFM 740-0

Contact load 24 V DC 1 A

Dimensions: 53.5 x 89 x 60 mm

**TR 603-0**

Transformer in 3-grid switch panel housing to supply users with 12 V AC. On the secondary side TR 603-0 is short circuit proof

Specifications

- T 40
- Primary: 230 V AC $\pm 10\%$, 50-60 Hz max. 22 VA
- Secondary: 12 V AC, max. 1.3 A
- Protection system: IP 20
- Dimensions W x H x D
53.5 x 89 x 60 mm