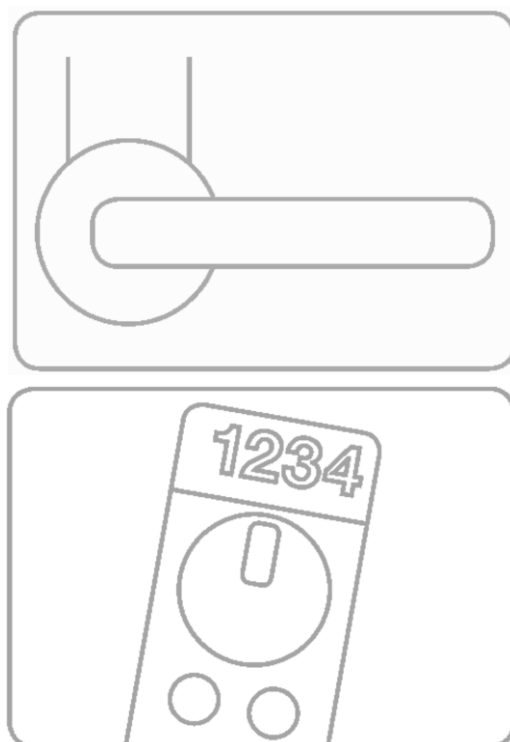


SAFE-O-TRONIC® *access*
Electronic Identification and Locking System



Manual
DS200
English

SAFE-O-TRONIC® *access* DS Door Locking System

About this manual

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Nevigeser Strasse 100-110
42553 Velbert, Germany
Telephone: +49 2051 2086-0
<http://www.sag-schlagbaum.com>



Release: 20120424
Version: 1.0
Document number: **DS200_6-713-2 08T1.1.docx**

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Safety and warning notes

- This manual describes operation start-up and operation of a SAFE-O-TRONIC® access DS200 or DS-T200.
- The device may only be used for the purpose intended by the manufacturer.
- The manual is to be stored at an easily accessible location.
- Unauthorised changes and the use of spare parts and additional devices, which are not sold or recommended by the manufacturer, can cause fires, electric shocks and/or injuries. Such measures result in loss of liability, and the manufacturer does not provide any warranty for such.
- Only the manufacturer may carry out repairs.
- The warranty provisions of the manufacturer apply in the version valid at the time of purchase. No liability is assumed for inappropriate manual or automatic settings of parameters for a device or for inappropriate use of a device.
- The operator is responsible for setting up and connecting the device according to recognized technical regulations in the country of set-up as well as other valid regulations.

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Introduction

The manual describes the functions of the electronic door locking systems SAFE-O-TRONIC® access DS200 and DS-T200.

The technology

The electronic door locking systems SAFE-O-TRONIC® access DS200 and DS-T200 are installed like a fitting on the door leaf. They are adapted on pre-aligned profile cylinder mortise locks according to DIN 18251 or DIN 18273 for fire doors. The mortise lock is connected in the inside of the door leaf via a square pin and profile cylinder adapter, which is inserted into the mortise lock instead of the profile cylinder. SAFE-O-TRONIC® access DS200 and DS-T200 are operated completely independently without external line connection and can be installed and operated on most customary door leaves in the inside area.

SAFE-O-TRONIC® access DS200 or DS-T200 is operated via a PIN code. An authorised 4 to 6-digit user code is entered for the DS200 or DS-T200 to close or open the door locking system. If the user code is authorised for the corresponding DS200 or DS-T200, mechanical coupling is actuated for a few seconds, which enables opening and closing of the DS200 or DS-T200 using the door handle.

Thanks to the PIN code, keys broken off or stuck are a thing of the past as are door locks sabotaged by alien elements.

SAFE-O-TRONIC® access DS200 or DS-T200 can be combined with various door handles and DS200 with rosettes. The front opening of DS200 or DS-T200 and ornamental handle rosettes of DS200 can be designed freely. In the model SAFE-O-TRONIC® access DS200, a free-running door handle is coupled and consequently it is possible to actuate the latch mechanism of the mortise lock. In the second model SAFE-O-TRONIC® access DS-T200, the free-running rotary knob is coupled and consequently it is possible to actuate the latch mechanism of the mortise lock. This model provides additional locking security as compared to SAFE-O-TRONIC® access DS200.

Operation

SAFE-O-TRONIC® access DS200 or DS-T200 is actuated via a capacitive keyboard. After the DS200 or DS-T200 detects a valid user code, mechanical coupling is established between the door locking system and the mortise lock for a few seconds. The mortise lock can then be closed in such a way as is customary for mortise locks with profile cylinders, i.e. the latch mechanism is actuated for the model DS200 and additionally the lock bolt is moved back and forth for the DS-T200 model. Operation is single-handed.

Lock security

Thanks to the adaptation of SAFE-O-TRONIC® access DS-T200 instead of a profile cylinder in the mortise lock, SAFE-O-TRONIC® access DS-T200 ensures lock bolt security, i.e. the door can be bolted and is not only dependent on the latch mechanism. This concept provides the advantage that the operation of SAFE-O-TRONIC® access DS-T200 is almost analogue to operating a conventional mortise lock with profile cylinder and is therefore easy to understand. The door can simply be closed and additionally locked when leaving the room. To open the door, the lock bolt and the latch mechanism of the DS-T200 are actuated via the rotary knob to release the door.

Flexibility

SAFE-O-TRONIC® access DS200 and DS-T200 are independent door locking systems which can manage up to 99 different user codes limited in time. Because each user code can be approved for each DS200 or DS-T200, a high degree of flexibility is achieved. Time-consuming planning of a rigid lock planning with definition of lock groups is eliminated.

If a user code is forgotten, it can simply be replaced. The DS200 or DS-T200 must be reprogrammed for this. The old user code automatically loses its authorisation during the process.

The system philosophy

SAFE-O-TRONIC® access DS200 and DS-T200 can be combined as components with all components of SAFE-O-TRONIC® access locking systems. It is an open system. Operators can program user codes within their systems at any time. Long and involved reordering of a specific key for a specific lock is eliminated completely.

The use of PIN codes makes the combination of DS200 or DS-T200 with the electronic furniture lock system SAFE-O-TRONIC® access LS possible without limitations.

The SAFE-O-TRONIC® access DS200 or DS-T200 system is enhanced by:

- Programmer set DS200
- SystemKey set SOT access
- Communicator SOT access
- Lock Manager 6 Key
- Lock Manager 6 Communicator
- Desktop Reader USB Mifare
- Infoterminal SOT access

Additional information is provided in the respective separate manuals.

The security concept:

The security concept of SAFE-O-TRONIC® access DS200 and DS-T200 is based on a procedure, which achieves a high level of security and ensures a minimum of administration work for system operators at the same time to ensure system security.

System codes (system IDs)

The procedure for forwarding system codes for a SAFE-O-TRONIC® access DS200 or DS-T200 system ensures that the system codes can be administered easily and are not displayed in legible text at any point of the information flow.

System IDs ensure that no programmer key external to the system or internal system key can operate a DS200 or DS-T200. System IDs are assigned in a hierarchical system. Three levels are differentiated in this system.

The uniqueness of the system IDs ensures that each system has a unique system code. SAFE-O-TRONIC® access DS200 or DS-T200 checks whether the respective programmer keys or system keys have the valid system IDs, i.e. are permitted in the system, and only allows operation if all system IDs of DS200 or DS-T200 and programmer keys or system keys are identical.

The system IDs are encoded and stored on the programmer keys and systems keys; they cannot be read from them. The system IDs are transported via a special programmer key (FixCodeINIT_ALL) or a system key (SysDataKey) in which the respective system IDs are stored in such a way that they can be loaded in SAFE-O-TRONIC® access DS200 or DS-T200 without becoming visible at any point along the transport chain.

In addition to the features described, a number of integrated functions provide additional security:

Information security

Unauthorised persons cannot see the data due to the encoding of the information stored in the programming keys or system key as well as the safeguarding of information using checksums.

Transfer security

Data exchange between SAFE-O-TRONIC® access DS200 or DS-T200 and a programmer key or system key is safeguarded against transfer errors by checksums.

Counterfeiting security

Data relevant to security, e.g. system IDs are encoded by software algorithms before they are stored on programmer keys or system keys. They cannot be read in clear, legible text. Wire-tapping information transfers do not provide any information about the data stored on the programmer or system keys either. Thanks to this algorithm, the data are also safeguarded from duplication on another RFID data carrier.

Key generation KGEN (locking sequence):

Key generation of programmer and system keys is a current version number or locking sequence programmed in all keys. If a programmer or system key is lost, a new key can be generated with the same keys but with a new key generation. The old programmer set or system key set loses its validity on the DS200 or DS-T200 after the initial use of the service key from the programmer set or system key set with a higher KGEN.

User code with time limit

Thanks to the individual time limit of a user code, which can be stored in each SAFE-O-TRONIC® access DS200 or DS-T200, work is reduced for blocking a user because the user code is not authorised to operate the lock outside of the stored time period.

Lock log

The last 500 actuations of SAFE-O-TRONIC® access DS200 or DS-T200 are entered with date and time in the lock log. Consequently it is easy to track which person actuated which DS200 or DS-T200 NS at what time with authorised use of the DS200 or DS-T200. Using the Communicator, the log memory, i.e. the last 500 actuations, can be read from the DS200 or DS-T200 at any time.

The data in the log memory are especially significant, for example, if a user notices a faulty function or unauthorised access and it is to be determined which user code or system key last actuated the SAFE-O-TRONIC® access DS200 or DS-T200.

Additional information is to be found in the Lock Manager 6 manual.

Models

SAFE-O-TRONIC® access DS200 door locking systems are available with various functions in the models DS200 and DS-T200.

50201

In the model DS200, the free-running handle is coupled via the door locking system SAFE-O-TRONIC® access DS200, and consequently it is possible to actuate the latch mechanism of the mortise lock.



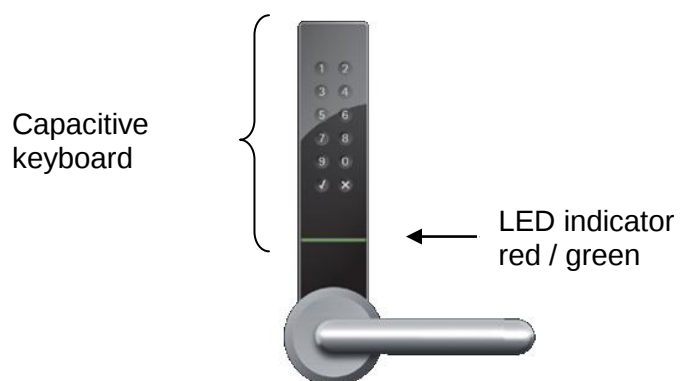
50202

In the second model, the free-running rotary knob is coupled via the door locking system SAFE-O-TRONIC® access DS-T200, and consequently it is possible to actuate the latch mechanism of the mortise lock. This model provides additional lock bolt security compared to the model DS200.

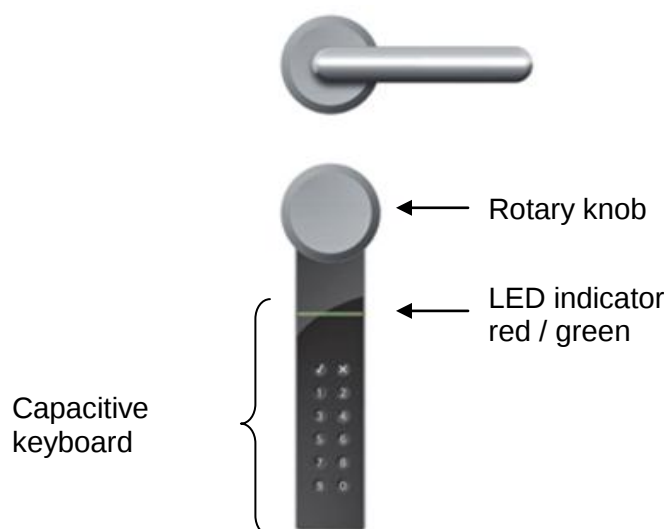


Control elements

50201



50202

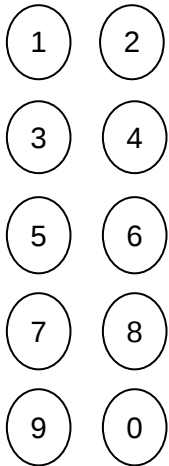




OK button: Conclusion of a code entry



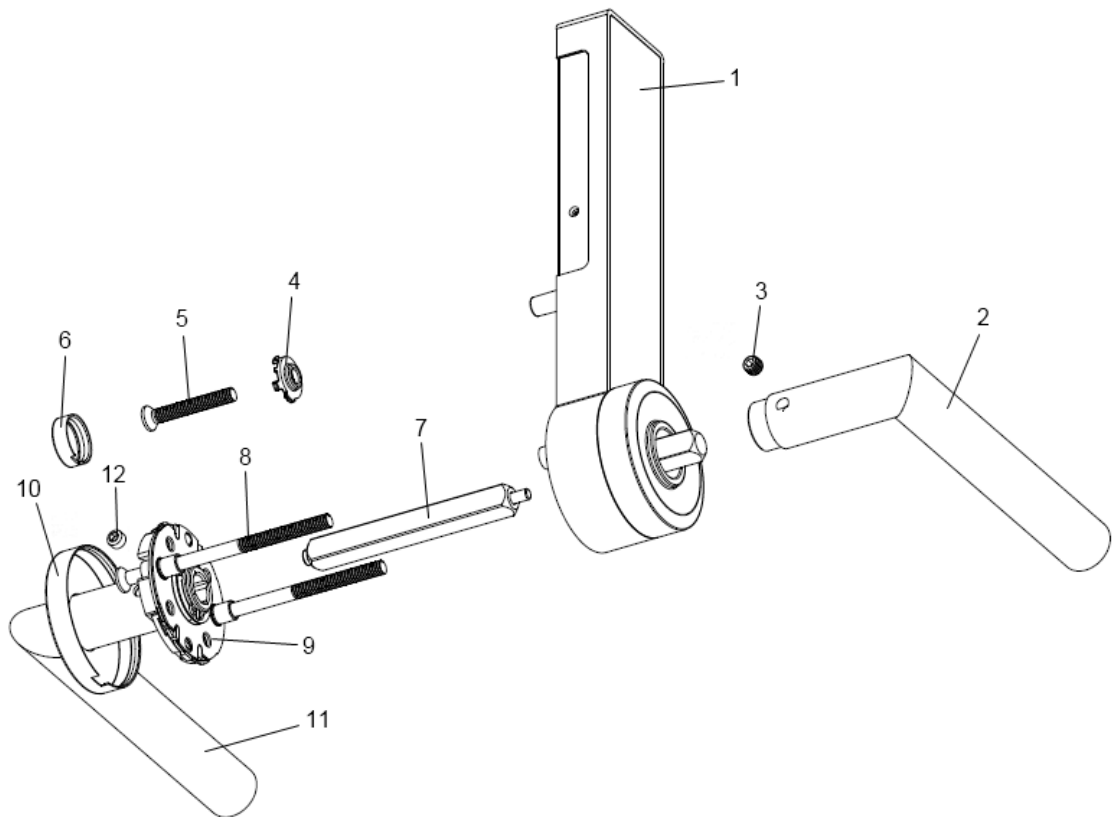
Cancel button: Code entries or programme procedures can be deleted by pressing the Cancel button



Keys 1, 2, 3, 4, 5, 6, 7, 8, 9, 0: Number key for entering the code

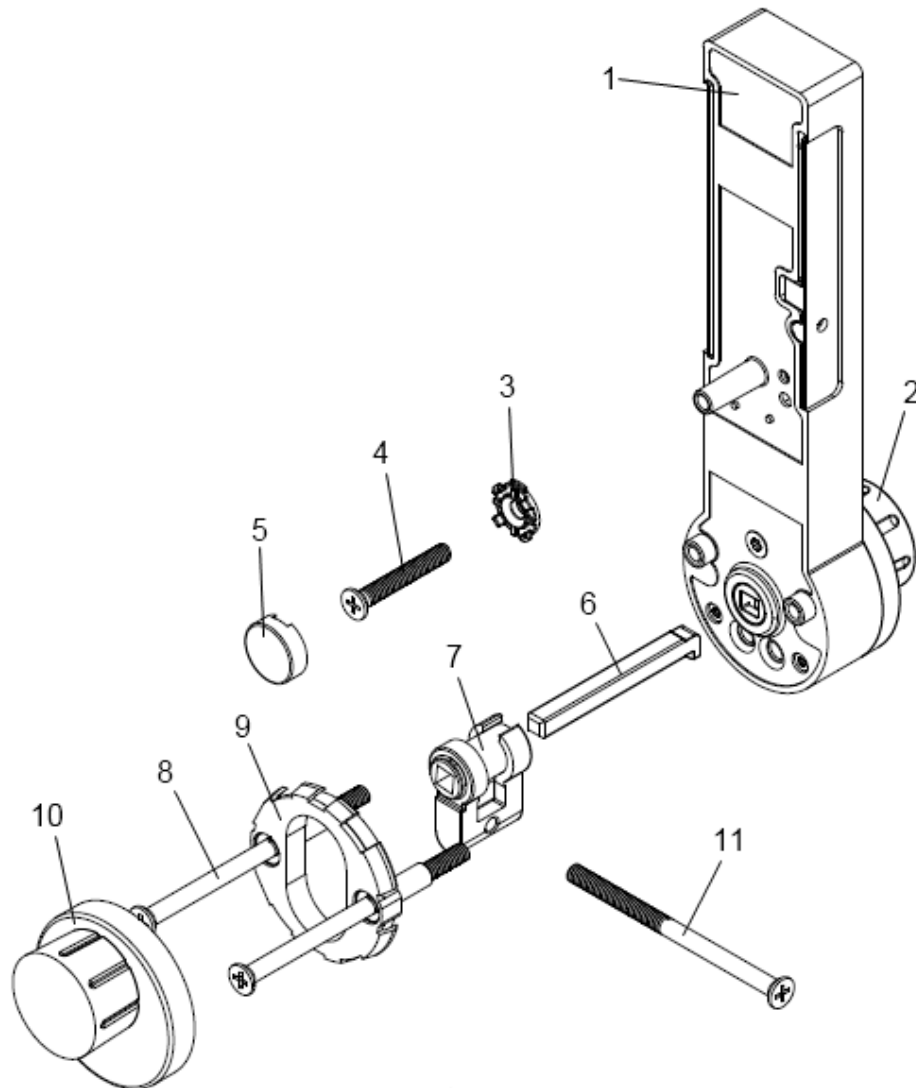
Parts overview

50201



- 1 SAFE-O-TRONIC® access DS200**
- 2 Outer door handle and headless screw (3)**
- 4 Screw cover support**
- 5 Screw M5 for attaching (bolts)**
- 6 Screw cover cap for attaching screw**
- 7 Square pin**
- 8 Screws M5 for attaching 2 pieces (rosette)**
- 11 Door handle fittings with rosette support (9), handle rosette (10) and headless screw (12)**

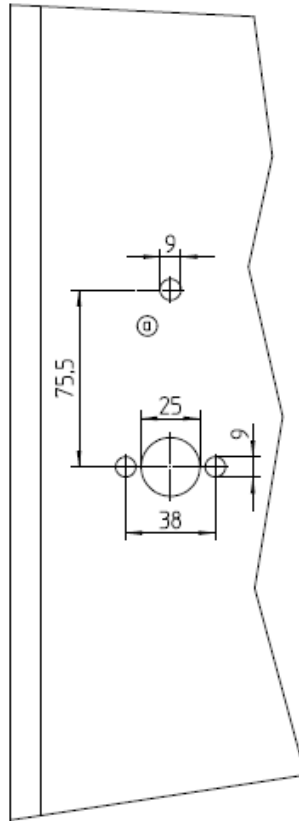
50202



- 1 **SAFE-O-TRONIC® access DS-T200**
- 2 **Rotary knob**
- 3 **Screw cover support**
- 4 **Screw M5 for attaching (bolt)**
- 5 **Screw cover cap for attaching screw**
- 6 **Square pin**
- 7 **Profile cylinder adapter**
- 8 **Screw M5 for attaching 2 pieces (rosette)**
- 9 **Rosette support**
- 10 **Rosette with rotating handle**
- 11 **Screw for attaching the profile cylinder adapter**

Notes about installation

Preparing the door, # 50201



In line with the drawing, the following holes must be available for the door:

1. Perforation with the dimension 25 mm and two perforations for the rosette attachment with a diameter of 9 mm.
2. Perforation with a diameter of 9 mm.

The perforations can be drilled using a drilling template.

Installation # 50201

1. DS200 (1) Fit onto four perforations 25 mm and 9 mm.
2. Insert square pin (7).
3. Attach rosette support (9) with stationary door handles (11) with two screws (8) on the door.
4. Screw the headless screw tight (12) in the door handle (11); then push the handle rosette (10) over the rosette (9) support.
5. Attach support screw cover (4) with screw (5) to the door. Then cover the screw (5) with the screw cover cap (6).
6. Attach the door handle (2) using the headless screw (3).
7. Test functioning of the DS200 using the test key or test code with opened door.
8. Test functioning with closed door. Here particular attention should be paid to the smooth running of the latch and additionally to the smooth running of the bolt in the model with inside bolting.

Installation # 50202

1. DS-T200 (1) Fit onto four perforations 25 mm and 9 mm.
2. Insert square pin (6) and profile cylinder adapter (7) and attach the profile cylinder adapter (7) using a screw (11).
3. Attach the rosette support (9) to the door using two screws (8); then push the rosette with the rotary handle (10) over the rosette support (9).
4. Attach support screw cover (3) with screw (4) to the door. Then cover the screw (4) with the screw cover cap (5).
5. Test functioning of the DS-T200 using the test key or test code with opened door.
6. Test functioning with closed door. Here particular attention should be paid to the smooth running of the latch and additionally to the smooth running of the bolt in the model with inside bolting.

Handle installation

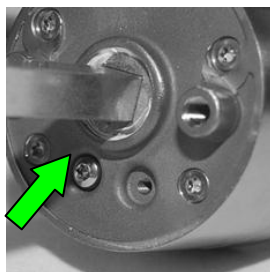
Depending on the door, SAFE-O-TRONIC® access DS200 can be installed for right and left doors. Handle installation is set by the stop screw. The stop screw is screwed into the right-hand or left-hand position.

Before installation of SAFE-O-TRONIC® access DS200, the handle direction must be set by screwing in the stop screw. If the incorrect direction is set with this stop screw, the locking system does not function correctly.

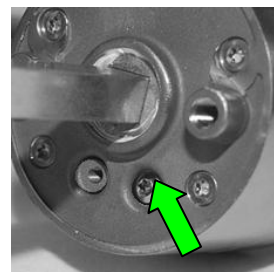
Right



Left



Stop screw
Right handle direction



Stop screw
Left handle direction



If the stop screw is not screwed into the SAFE-O-TRONIC® access DS200, the door locking systems can be used universally on the right-hand or left-hand side.

⚠ Note: The stop screw imposes an upward limitation on the free-running of the handle. Without stop screw, the door handle has no upward limitation from the neutral position.

General notes

Capacitive keyboard

SAFE-O-TRONIC® access DS200 or DS-T200 uses a capacitive keyboard for entering PIN codes.

 **Note:** The capacitive keyboard cannot be operated with gloves.

Programming

Operation start-up of SAFE-O-TRONIC® access DS200 or DS-T200 can be programmed using the programmer set of the system key set and Lock Manager 6 software. Programming is described in a separate manual.

User prompting

Operation is supported by the red / green LED indicators as well as acoustic feedback via a sensor.

Notes about keyboard entry

If there is a pause of more than three seconds between pressing the individual keys, the complete entry is cancelled.

Four attempts are permitted to enter the correct code. After the fourth incorrect entry, each additional entry is blocked for one minute in order to provide protection against manipulation.

The DS200 or DS-T200 is blocked after 100 incorrect entries. Blocking can then only be cancelled using MasterCode2 or MasterKey II.

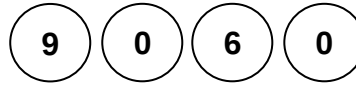
User code

The user code is the equivalent of a conventional key. The user code is a 4 to 6-digit PIN code. Because this is an open system, user codes can be created within the system.

Opening and closing with the user

The user enters a user code (in this example a 4-digit code) for closing and opening the DS200 or DS-T200.

- Enter user code



⚠ **Note:** 9, 0, 6, 0 is only an example code!

- Then press the OK key



- # 50201: Actuate the door handle



- # 50202: Turn the rotary knob, and actuate the door handle



User code with time limit

Thanks to the use of a real-time clock in SAFE-O-TRONIC® access DS200 and DS-T200 and a time limit storage in DS200 or DS-T200, time-limited use of a user code is possible. It can also be ensured that the user code has the same time limit on all SAFE-O-TRONIC® access DS200 or DS-T200.

There are two options for programming the time limit in SAFE-O-TRONIC® access DS200 or DS-T200.

- Validity start: date and time
- Validity end: date and time

Real-time clock

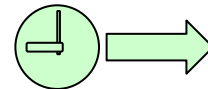
SAFE-O-TRONIC® access DS200 and DS-T200 are equipped with a real-time clock which provides numerous user functions. As basic function, the time limits listed below are available in DS200 or DS-T200. Additional time limits can also be used.

Time limits

The following time limits can be stored in SAFE-O-TRONIC® access DS200 or DS-T200. The opening and closing of a DS200 or DS-T200 is prevented by the individual time limits or time limits used in combination.

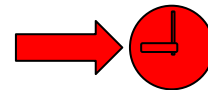
Valid as of:

The user code becomes valid as of a defined time (Date and time).



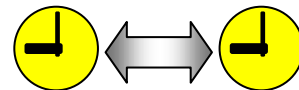
Valid until:

The user code is valid until a defined time (Date and time).



Valid from – to

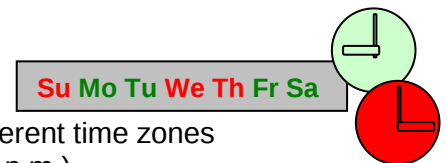
Via combination of the function "Valid from" and "Valid to".



Time zones:

In addition, 8 weekday-related time zones can be programmed in SAFE-O-TRONIC® access DS200 or DS-T200.

This can be used to restrict the validity of the user codes to 8 different time zones (e.g. each Monday and Wednesday between 8:30 a.m. and 4:20 p.m.).



Time zones 1-8 (daily validity)

A maximum of 8 time zones can be stored in each SAFE-O-TRONIC® access DS200 or DS-T200. In Lock Manager 6 the setting is made as to which time zone is active in DS200 or DS-T200 and how the individual times zone is defined.

Each time zone contains the following values:

- Validity start – minute, hour
- Validity end – minute, hour
- Valid weekdays – Mo, Tu, We, Th, Fr, Sa, Su

A time zone in DS200 or DS-T200 is only valid if it was activated. If a time zone is selected which is not active, the user code is valid without limitation.

The time zone 0 is the default (default setting in Lock Manager 6) with general validity (all weekdays from midnight until 11:59 p.m.) and is activated for all DS200 or DS-T200.

User code assignment

Each SAFE-O-TRONIC® access DS200 or DS-T200 has a memory in which up to 99 lock-authorized user codes can be stored.

Because each user code in a system can be authorised in every DS200 or DS-T200, there is no need for time-consuming definition of a locking plan taking mechanical limits into account. In the same way, any user code can be assigned a superordinate code, e.g. the function of a general key, simply by permitting the user code in question at all desired DS200 or DS-T200.

Lock authorisation is assigned via a freely programmable 4 to 6-digit user code, which is stored in DS200 or DS-T200. A user code can only actuate a DS200 or DS-T200 if the user code is stored in DS200 or DS-T200.

User codes can be authorised and blocked individually for each user code in SAFE-O-TRONIC® access DS200 or DS-T200. To obtain a better overview of locking authorisations in the system, the locking plan is set in Lock Manager 6 and then programmed in the DS200 or DS-T200.

Operation start-up

All SAFE-O-TRONIC® access DS200 or DS-T200 are supplied with the same ex-works setting. The test key and the test code are enabled for locking and opening in the ex-works setting.

TestKey

The function of SAFE-O-TRONIC® access DS200 or DS-T200 should be checked with the test key after installation.

Pay special attention to smooth running of the lock bolt at locking with the DS-T200. If the installation is too tight, malfunctions can occur.

After conclusion of installation work and checking all SAFE-O-TRONIC® access DS200 or DS-T200 with the test key, the DS200 or DS-T200 must be programmed.

⚠ Note: The test key is maintained until operation start-up (programming of DS200 or DS-T200).

Test code

A simple function check of the SAFE-O-TRONIC® access DS200 or DS-T200 can be performed using the test code.

Opening and closing with the test code

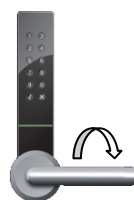
- ▶ Press button 0



- ▶ Then press the OK key



- ▶ # 50201: Actuate the door handle



- ▶ # 50202: Turn the rotary knob, and actuate the door handle



⚠ Note: The test code is maintained until operation start-up (programming of DS200 or DS-T200).

Programming MasterCode2

Each SAFE-O-TRONIC® access DS200 or DS-T200 must be programmed with MasterCode2 for operation start-up. A 5 to 10-digit code can be programmed as MasterCode2.

 **Note: Make certain that no unauthorised person learns of the programmed MasterCode2!**

 **Lock Manager 6 software is required for programming MasterCode2.**

Operating mode

The user code is used for closing or opening by the user. In addition, the DS200 or DS-T200 can be programmed for "Fixed Allocation – All Open".

Fixed Allocation – All Open

The user codes must be programmed in the DS200 or DS-T200 with Fixed Allocation – All Open. Then every programmed user code can close and open the DS200 or DS-T200.

MasterCodes

MasterCode1

MasterCode1 is used for opening by the system operator / staff. This is designed for staff with restricted locking rights. After opening, the DS200 or DS-T200 is blocked from entry of a new user code. This lock must be reset using MasterCode2. A 5 to 10-digit code can be programmed as MasterCode1.

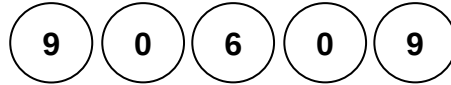
 **Note: MasterCode1 cannot be programmed with a leading 0!**

 **Note: Lock Manager 6 software is required for programming MasterCode1.**

Open with MasterCode1

Once a MasterCode1 has been programmed, the system operator can open the DS200 or DS-T200 using this code at any time.

- Enter MasterCode1



⚠ Note: 9, 0, 6, 0, 9 is only an example code!

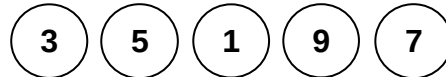
- Then press the OK key



Release with MasterCode2

If a SAFE-O-TRONIC® access DS200 or DS-T200 is opened with MasterCode1, the DS200 or DS-T200 is blocked from being actuated with a new user code. The DS200 or DS-T200 must then be enabled with MasterCode2.

- Enter MasterCode2



⚠ Note: 3, 5, 1, 9, 7 is only an example code!

- Press the OK button



The blocked DS200 or DS-T200 is then enabled again for further operation with the user code.

⚠ Note: After opening the DS200 or DS-T200 with MasterCode1, the DS200 or DS-T200 must be enabled via entry of MasterCode2.

MasterCode2

The system operator can use MasterCode2 for opening and closing as well as enabling the DS200 or DS-T200 at any time.

⚠ Note: MasterCode2 cannot be programmed with a leading 0!

Opening and closing with MasterCode2

Once a MasterCode2 has been programmed, the system operator can open the DS200 or DS-T200 using this code at any time.

- ▶ Enter MasterCode2



⚠ Note: 3, 5, 1, 9, 7 is only an example code!

- ▶ Then press the OK key



- ▶ # 50201: Actuate the door handle



- ▶ # 50202: Actuate the rotary knob and the door handle



Code overview

The following table contains an overview of the various codes.

	4 to 6-digit	5 to 10-digit	Open	Close
User code	x	-	x	x
MasterCode1	-	x	x ^(*)	-
MasterCode2	-	x	x	x

(*)

Change MasterCode2

- Press the OK button and Cancel at the same time  and 

- Enter active MasterCode2     

 **Note: 3, 5, 1, 9, 7 is only an example code!**

- Press the OK button 

- Press button 2
("2" for MasterCode2) 

- Press the OK button 

- Enter new MasterCode2     

 **Note: 4, 8, 2, 7, 3 is only an example code!**

- Press the OK button 

- Enter the new MasterCode2 again     

- Press the OK button 

 **Note: Lock Manager 6 software is required for changing MasterCode2.**

MasterKey I and MasterKey II

MasterKey I

MasterKey I is used for opening the DS200 or DS-T200 by the system operator. This is designed for staff with restricted locking rights. After opening with MasterKey I, the DS200 or DS-T200 is blocked to entry of a new user code. This lock must be reset using MasterKey II.

MasterKey II

MasterKey II can be used at any time for opening and closing the DS200 or DS-T200 or for enabling a DS200 or DS-T200 blocked using MasterKey I.

Programming before using the MasterKey

The Masterkeys have to be programmed at the application of the Lock manager 6 Software before use. The following parameters can be set using Lock Manager 6 software:

- Lock number or lock number range
- Valid from, valid to

Consequently, it is possible to enable the MasterKeys only for a specific lock or lock range as well as within a specific time period.

The last 10 uses are stored on the MasterKey and can be read using Lock Manager 6 software. As a result, use of a MasterKey can be displayed without having to read a lock log.

 **Note: The programming of the Masterkeys is only possible in connection with the Lock Manager 6 Software.**

 **Note: Every use of the MasterKey is stored in the lock log.**

 **For additional information, please refer to the Lock Manager 6 manual.**

SystemKey Set

With the SystemKey Set, the SAFE-O-TRONIC® access DS200 or DS-T200 is programmed and data from the DS200 or DS-T200 is read using the Lock Manager 6 software. The SystemKey Set is composed of seven data carriers with red lettering.

Descriptions and functions:

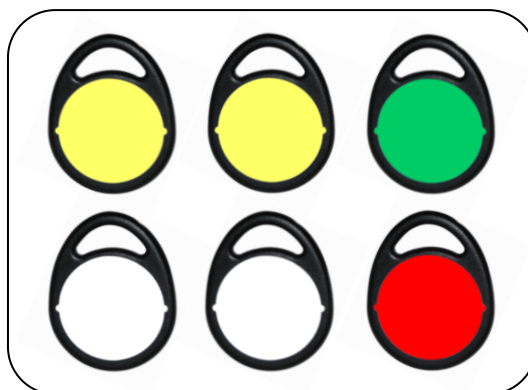
Configure SysDataKey	DS200 or DS-T200
Program DataKey	User code
MasterKey I	Open only
MasterKey II	Open and close
ServiceKey	Service functions, read log
ResetKey	Reset DS200 or DS-T200 to the ex-works state. The lock log is retained.
TestKey	Function check of the DS200 or DS-T200 in the ex-works state

For additional information on using the individual SystemKeys, refer to the Lock Manager 6 manual.

Programmer set

By the programmer set for SAFE-O-TRONIC® access DS200, the DS200 or DS-T200 can be operated with pre-defined functions without Lock Manager 6 software. Time-related functions such as automatic blocking or opening, validity start/end and logging are not included in this programmer set. It is possible to obtain the complete range of functions at any time via subsequent use of the SystemKey Sets and of the Lock Manager 6 software.

Additional information on use of the individual keys is provided in a separate manual on the programmer sets.



Information

LED indicator

All important actions and operation states are signalled by the LED indicators and are designed to provide support in finding causes if there are malfunctions or faulty operation. The meaning of the individual signals is listed in the following table.

Status messages

Green	Red	Green	Red	Indicator	Action
				Fast blinking	Program mode
				Every 3 seconds	The blocking time (one minute) is active. An incorrect code was entered four times.
				1 second	Key entry
				1 second	Cancel key ("X") was pressed.
				LEDs blink alternately three times.	Handling error; the door handle or knob was not actuated within the release time.
				Alternately	Actuation of the door handle or the knob is expected
				1 second	DS200 or DS-T200 was locked / programming required
				2 seconds	DS200 or DS-T200 was unlocked.
				½ second	Code was accepted
				3 seconds	Internal function malfunction / DS200 or DS-T200 might have to be replaced.
				First the red LEDs light up, then the green LEDs for ½ second each.	The block triggered by MasterCode1 / Key I is released using MasterCode2 / Key II.
				LEDs blink fast together three times.	Code entry refused, because a block by MasterCode1 / Key I is active.
				LEDs blink together three times.	Warning: Battery should be replaced soon.
				LEDs blink alternately five times.	Battery must be replaced immediately; DS200 or DS-T200 can no longer be locked.
				LEDs blink three times.	Reset was performed.

Correcting malfunctions / troubleshooting

The status messages of the LED indicators show what malfunctions have occurred and how to handle troubleshooting.

If other undefined states occur and the DS200 or DS-T200 does not function perfectly despite replacing the battery, resetting via ResetKey and reprogramming, contact Support.

Changing the batteries

1. Unscrew the screw on the side of the cover using screwdriver T6.
2. Open the battery compartment and remove the battery pack. Disconnect the two-pin plug-in connection of the battery pack.
3. Connect battery pack with plug-in connection and insert battery into DS200 or DS-T200.
4. Close the battery compartment and screw it closed again.

No code is deleted when a battery replacement is carried out. As a security measure, the time should be reset after a battery replacement.

⚠ Note: The discharged battery pack is to be disposed of properly in line with valid environmental regulations!

Battery monitoring / Battery alarm

The automatic battery monitoring of SAFE-O-TRONIC® access DS200 or DS-T200 ensures that a DS200 or DS-T200 can no longer be locked with a low level of battery voltage.

There is a warning in advance of this when all LEDs blink twice. We recommend replacing the battery when this occurs.

If the battery is not replaced, an alarm is sounded after a certain period of time. This is indicated by the red and green LEDs lighting up three times. The battery must be replaced at this time. In this state, the DS200 or DS-T200 can still be opened but not locked any more.

DS200 or DS-T200 may only be operated with the batteries approved by Schulte-Schlagbaum AG. The use of unapproved batteries can result in malfunction and damage to the DS200 or DS-T200.

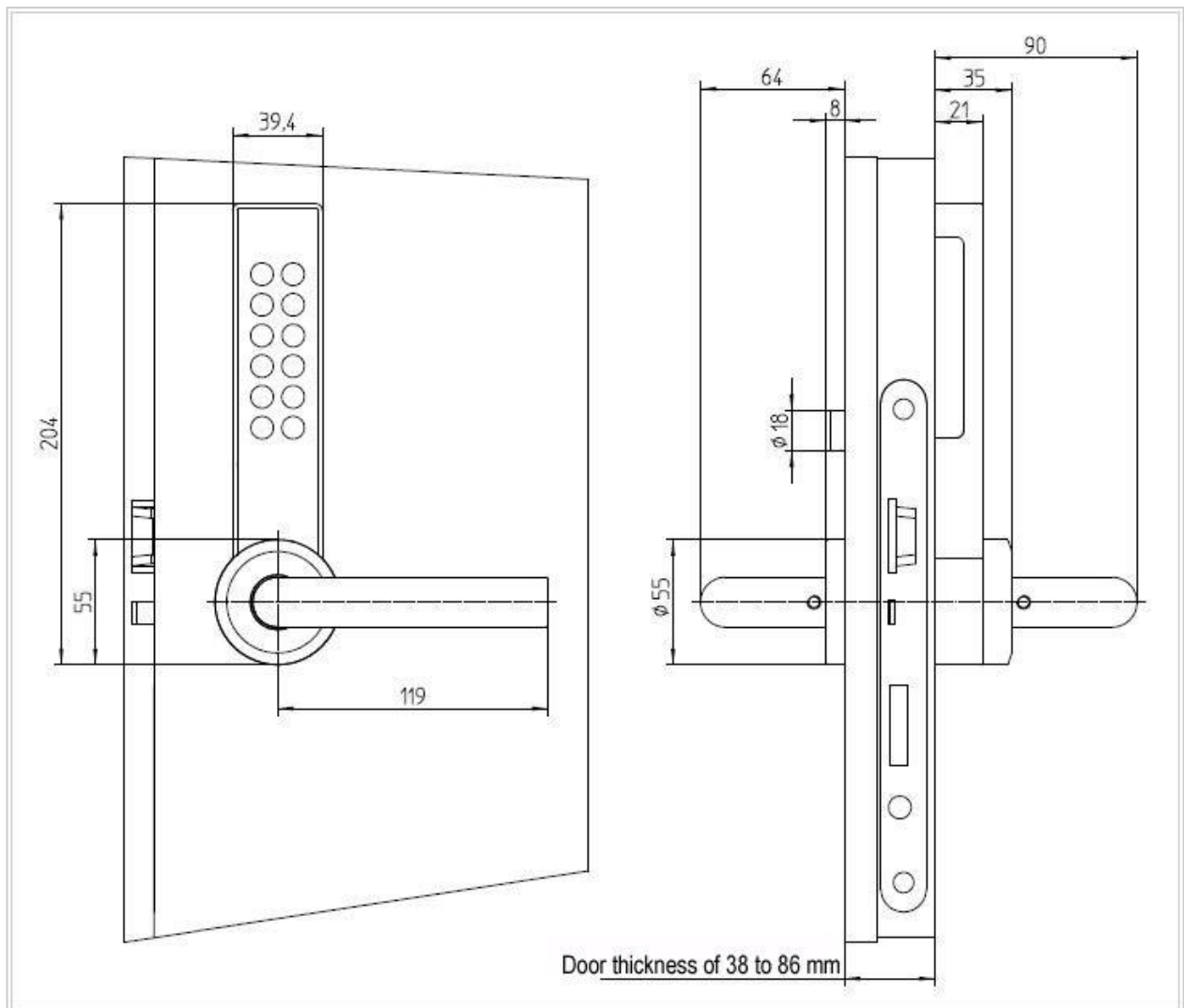
Maintenance and Care

SAFE-O-TRONIC® access DS200 or DS-T200 requires no maintenance. DS200 or DS-T200 may not be oiled or lubricated using lubricants containing mineral oil.

Cleaning may only be carried out using non-adhesive, residue-free cleaning agents and disinfectants. No corrosive cleaning agents, acids or alkaline solution may be used. No pressure cleaners may be used either. The DS200 or DS-T200 may not be spray-washed either, e.g. using a hose; this can destroy it and result in loss of liability.

Technical specifications

50101



Display elements:

2 x LED green

2 x LED red

Acoustic signal:

Sensor

Battery:

Battery pack: 3 x alkali cells (AAA)

Battery life:

approx. 3 years or approx. 30.000 operations

Temperature ranges

Function:

0 to +60° C

Storage:

-15 to +70° C

Relative humidity:

10 – 90% non-condensing

Protection class according to EN 60529:

IP 43

Weight (without door handle)

approx. 600 g

Housing dimension (HxWxD):

204 mm x 55 mm x 21 mm

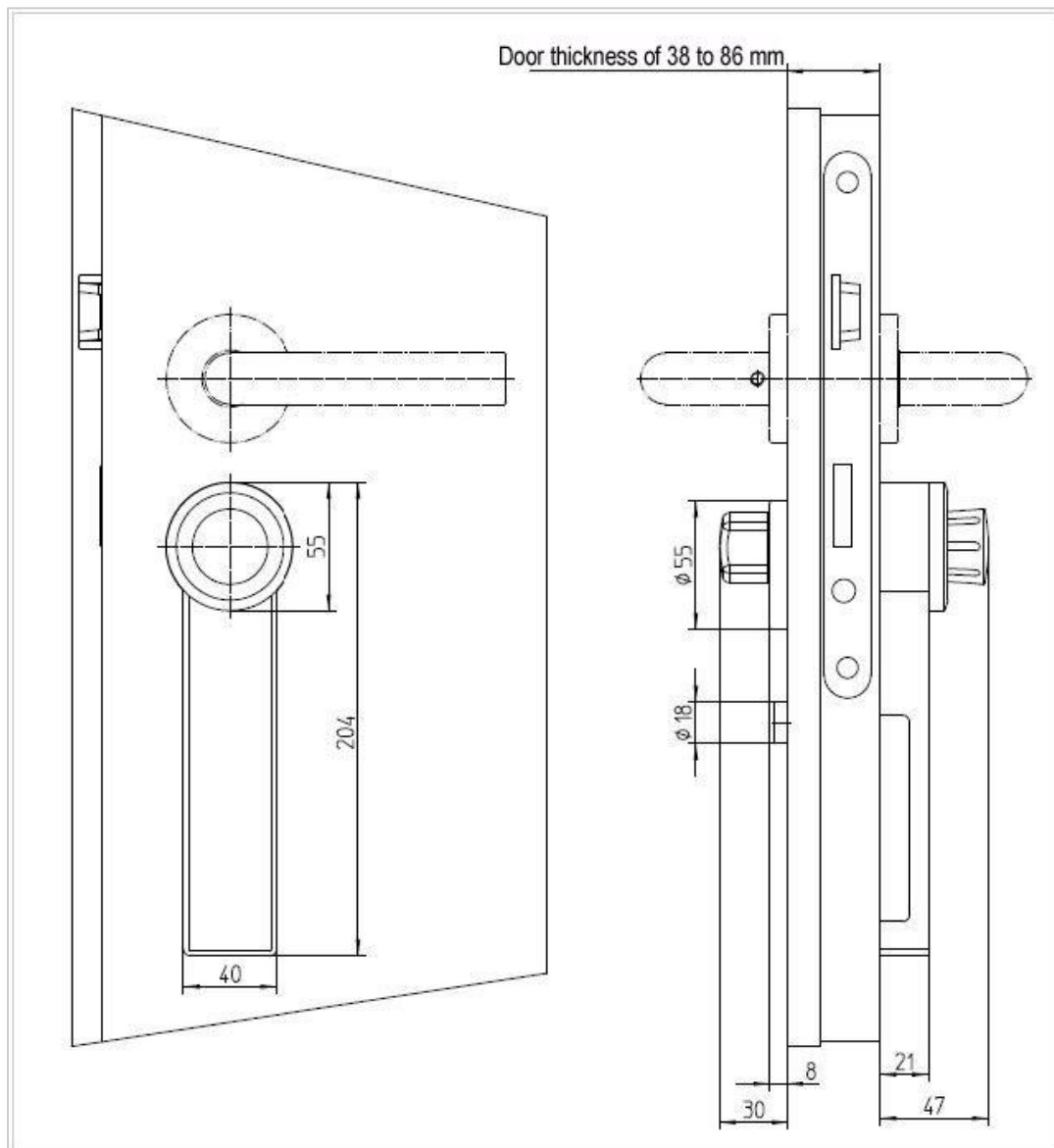
Housing surface:

stainless steel

Door thickness:

38 to 86 mm, additional door thicknesses optional

50102



Display elements:

2 x LED green

2 x LED red

Acoustic signal:

Sensor

Battery:

Battery pack: 3 x alkali cells (AAA)

Battery life:

approx. 3 years or approx. 30.000 operations

Temperature ranges

Function:

0 to +60° C

Storage:

-15 to +70° C

Relative humidity:

10 – 90% non-condensing

Protection class according to EN 60529:

IP 43

Weight (without door handle):

approx. 600 g

Housing dimensions incl.
rotary knob (HxWxD):

204 mm x 40 mm x 47 mm

Housing surface:

stainless steel

Door thickness:

38 to 86 mm, other door thicknesses optional

Drilling hole template DS200, DS-T200, # 50299100