TSGI/SDC

AccessOne Door controller

Assembly and operating manual



Connect people. Create access.

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1 About this manual

This manual contains information on the assembly and commissioning of a TSG single door controller within the AccessOne access control system. This manual should be treated as a part of the product and must be kept for the entire service life of the product. The manual should be passed on to any subsequent user or owner of the product.

Other applicable documents

Depending on the system environment in which this **CES**entry device is to be used, the following documents will be required for its subsequent integration:

AccessOne Setup > BRO2316_EN_Manual_Set-Up-AccessOne

Gestaltungsmerkmale



Refers to other documents.



Indicates additional information and tips.

Indicates warnings in step-by-step instructions and particularly important information.

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1.1 Manufacturer and service

The manufacturer of the door control is ACcesstronic GmbH. Service and support are provided by C.Ed. Schulte GmbH, Velbert. For service assistance, please contact CES Service. CES Service can be contacted at +49(0)2051 204 222 or by e-mail: hotline@ces.eu

1.2 Target groups of this manual

If a section of this manual is intended for a particular target group, this is stated at the start of the section. Sections that do not specify a particular group are relevant for all target groups.

Target group	Skills
IT/administration specialists	 have many years of professional experience in the fields of IT structures, administration and networks. Particular characteristics of this target group: Knowledge of specialist IT terminology Knowledge of the structure and maintenance of networks, particularly knowledge of the network that they maintain
System operators	 are experienced in the management of master key systems. This could be either knowledge of a number of such systems or an in-depth knowledge of a single master key system. Particular characteristics of this target group: Knowledge of the specialist terminology related to master key sys- tems Skilled in the use of PCs and software
Personnel with product training	 have been given product training by CES or a CEStronics partner. These personnel are given detailed and specific information to prepare them for the required task. Particular characteristics of this target group: Knowledge of CEStronics products and experience in handling them (installation, operation, etc.)
CEStronics partners	 are trained experts in locking and security technology who have also worked with CES for many years and have a special level of product knowledge. Particular characteristics of this target group: Detailed knowledge of CES products Participate regularly in (product) training



Target group	Skills
Locking and security technology specialists	 have many years of professional experience and/or relevant training in locking and security technology. For some tasks, it may be necessary for specialists to have received training on the product beforehand. Particular characteristics of this target group: Knowledge of specialist terminology from the field of locks and handle sets Knowledge of specific risks, e.g. when installing electronic cylinders and handle sets Experience of working with tools (relevant to lock systems) Knowledge of relevant standards and regulations, e.g. for fire safety or emergency and escape routes Basic understanding of electronic locking systems
Electricians	 have many years of professional experience and/or relevant training in the field of electronics. For some tasks, it may be necessary for spe- cialists to have received training on the product beforehand. Particular characteristics of this target group: Knowledge of specialist electrical terminology and its symbols Knowledge of the risks associated with handling sensitive electronic components
End users	do not require specific skills.



2 For your safety

2.1 EU Declaration of Conformity

The EU Declaration of Conformity is available at www.ces.eu.

2.2 Intended use

The TSG door controller is used for monitoring and controlling doors in an AccessOne access control system.

The product is intended solely for this purpose and may only be used for this purpose. Any other use is considered improper use and can lead to material damage or even personal injury.

The product must not be modified in any way without the written consent of C.Ed. Schulte GmbH Zylinderschlossfabrik.

2.3 Basic safety instructions

This device has been built using state-of-the-art technology and in accordance with recognised safety regulations. Nevertheless, its use may result in hazards for the user or third parties, or may also have negative impacts on the device and other material assets.

Use the product only when it is in proper working order and only for its intended purpose, taking due account of safety and potential hazards, and in accordance with the operating manual. Faults that affect safety must be remedied **immediately**.

2.3.1 Danger to life

Particular dangers for children

Children playing with packaging films or plastic bags are at risk of suffocation. If children swallow small parts such as screws, they are at risk of suffocation or poisoning. ☑ Do **not** allow children to play with the device or its packaging.

Do not allow children to play with the device of its packaging.

 $\ensuremath{\boxtimes}$ Keep the device and its packaging out of the reach of children.

Emergency and escape routes

Doors in emergency and escape routes (e.g. with anti-panic function) require special locking devices approved for this purpose. If the wrong type of locking device is used, people may not be able to open the doors in emergency situations and could be injured or killed.

 $\ensuremath{\boxtimes}$ Use only suitably approved locking devices in emergency and escape routes.



2.3.2 Risk of injury

Risk of explosion

Parts of the device that carry electric currents can produce electrical sparks even at low voltages (e.g. when electric circuits are switched on or off) and can thus act as sources of ignition. In potentially explosive environments, this can cause an explosion and cause injury to persons. ☑ Do not use the device in potentially explosive environments.

2.3.3 Risk of material damage

Hard shocks

Hard shocks can damage mechanical and electronic components of the device. Under some circumstances, damaged devices do not function correctly or do not function at all. ☑ Do not drop the device on the floor, onto hard surfaces or other objects.

Electrostatic discharges

Highly sensitive electronic components can be damaged by electrostatic discharges or overvoltage.
Under some circumstances, damaged devices do not function correctly or do not function at all.
☑ Do not install the device in areas affected by electrostatic charges.

 $\ensuremath{\boxtimes}$ Do not touch electronic components.

Liquids

Water and other liquids can damage the electronic components of the device. Under some circumstances, damaged devices do not function correctly or do not function at all. ☑ Protect the electronic components from water and other fluids.

Climatic influences

Climatic influences such as heat, cold and moisture can damage the device. Under some circumstances, damaged devices do not function correctly or do not function at all.

- $\ensuremath{\boxtimes}$ Do not use the device in corrosive atmospheres (chlorine, ammonia, lime water).
- $\ensuremath{\boxdot}$ Do not use the device in areas with high levels of dust formation.
- $\ensuremath{\boxtimes}$ Do not use the device in the immediate vicinity of heat sources.
- ☑ Observe the maximum permissible temperatures and the air humidity data for using the device (see '10 Technical data' on page <?>).

Incorrect maintenance or repair

Incorrect or negligent maintenance and repair can result in the device not functioning correctly or not functioning at all.

- ☑ Have the device maintained and checked for proper functioning every six months by CES or a CEStronics partner.
- ☑ Always have repairs performed by qualified personnel.
- ☑ Use only accessories and replacement parts recommended by CES.
- $\ensuremath{\boxtimes}$ Isolate the device from the power supply before working on or in it.
- $\ensuremath{\boxtimes}$ Do not use lubricants or oils for care and maintenance.

 \square

Incorrect wiring

Incorrect wiring can result in short circuits, malfunctions and other defects. Damaged or incorrectly wired devices do not function correctly or do not function at all.

- ☑ Ensure that wiring is exclusively carried out by skilled electricians or CEStronics partners trained by CES.
- ☑ Overvoltage protection devices should be fitted to prevent damage from overvoltages caused by lightning strikes, for example. Overvoltage protection devices should be fitted to prevent damage from overvoltages caused by lightning strikes, for example.



3 About door controller TSG1/SDC

The door controller TSG1/SDC monitors and controls the entrance and exit readers of a door. Each TSG1 can be connected to a total of four readers or wall terminals. If only one output is required per door in order to open it, two doors can be controlled in the same direction, with one reader each.

3.1 Scope of delivery



Pos.	Designation
1	Door controller housing
2 Fixing screws upper part of housing	

3.2 Parts designations

3.2.1 Housing



Pos.	Designation	
1	Cover strip front	
2	Upper part of housing	
3	Lower part of housing	
4	Cover strip back	

3.2.2 Platine



Pos.	Designation	
1	Connection terminals	
2	Jumpers	
3	Reset button	
4	RJ45 connector	
5	SD card slot	



4 Assembly

Target group CEStronics partners Electricians Electricians with product training IT/administration specialists

Tools required:

1

Tool		Required for
	6 mm drill bit	Bohrlöcher für Befestigungsschrauben
×	PZ2 Cross-head screwdriver	Fixing screws
	Slotted screw- driver	Cover strip removal

Use appropriate fixing material. You can obtain wall plugs and fixing screws from your partner for fixing technology.

4.1 Mounting preparation



- 1. Drill the holes for the fixing screws.
- 2. Mount wall plugs matched to the substrate (not included in the scope of delivery).





3. Secure the HOUSING with screws (not included in included in the scope of delivery).

- 4. Feed the wiring from below.
- A Ensure that there is sufficient strain relief (e.g. with a a cable tie).
- 5. Wire the connections according to the respective terminal assignment (see installation instructions of the connected units).



6. Fasten the upper part of the HOUSING with screws (included in the scope of delivery).





7. Secure the front COVER STRIPS.

The door control is mounted.

4.2 Disassembly



1. Carefully lever out the FRONT COVER STRIPS with a suitable tool.



2. Remove the FRONT COVER STRIPS.





3. Remove the fastening screws of the upper part of the HOUSING.

4. Remove the upper part of the HOUSING.

The housing is open.



5 Connections and wiring

Target group CEStronics partners Electricians Electricians with product training IT/administration specialists



Risk of damage. Before working on or in the device, ensure that it is isolated from the power supply.

5.1 Tamper - RS232 - power

For connecting additional contacts, e.g. tamper, and connecting the power supply.





5.1.1 Tamper

No.	Connection
1	Tamper
2	Tamper

5.1.2 RS232

No.	Connection	Note
1	RX	Receive data cable for outgoing data (negative logic)
2	ТХ	Transmit data cable for outgoing data (negative logic)
3	GND	Ground. The signal voltages are measured against this cable.

5.1.3 Power

No.	Connection	Note
1	GND	Ground. The signal voltages are measured against this cable.
2	+12 V DC	Power supply



5.1.4 Reader 1-2

For the connection of readers and wall terminals.



Set the jumper settings in accordance with the interface configuration (RS485/Wie-gand).



No.	Connection	Note
1	+12 V	Power supply
2	GND	Ground. The signal voltages are measured against this cable.
3	RS485-A / Wiegand D1	
4	RS485-B / Wiegand D0	
5	LED green	
6	LED red	

Door controller connection to wall terminal:





5.1.5 IN1-4 analogue

For the connection of the door contact, release button, floor circuit, burglar alarm system ready to arm, burglar alarm system armed, motion detector triggered, etc.



Set the jumper settings to suit the interface configuration (active/passive).



Passiv

No.	Connection	Note
1	5-24 V DC	Power supply
2	GND	Ground. The signal voltages are measured against this cable.

Aktiv

No.	Connection	Note
1	GND	Ground. The signal voltages are measured against this cable.
2	5 V	Power supply



5.1.6 OUT1-2

For the connection of actuators (door opener*, motorised lock, etc.), arming of the burglar alarm system, door alarm, silent alarm, start video recording, etc.

*For door openers, continuous supply with free-wheeling diode where possible



OUT potential-free

No.	Connection
1	Normally open contact (NO)
2	Changeover/Com

3 Normally closed contact (NC)

OUT active

No.	Connection	Note
1	12 V	Power supply
2	GND	Ground. The signal voltages are measured against this cable.
3	12 V	Power supply



6 Technical data

Dimensions



All dimensions in mm



7 Maintenance

Target group IT/administration specialists System operators Personnel with product training End users

7.1 Routine maintenance work

Have the device maintained and checked for proper functioning every six months by CES or a CEStronics partner.

7.2 Device care

Components and surfaces require cleaning and care. Observe the information regarding the use of cleaning and care products.

A CAUTION Damage to surfaces from use of incorrect care products

Therefore, do not use any solvent-based cleaning agent.

• Clean the outer, accessible components with a soft, slightly damp cloth.

7.3 Service

For service assistance, please contact your CEStronics partner.



8 Disposal

8.1 Notes on disposal

Electronic equipment contains a variety of substances and materials. If waste electrical and electronic equipment (WEEE) is not disposed of correctly, environmental and health risks may arise due to the pollutants contained. Additionally, proper disposal enables recyclable materials to be recovered and recycled, which makes a significant contribution to the conservation of natural resources.



Harm to health and the environment

Old electronic equipment must not be disposed of in the household waste.

Disposing of old devices

In accordance with the Waste Electrical and Electronic Equipment (WEEE) recycling regulations, every consumer has a duty to dispose of old electronic/electrical appliances safely and separately from household waste.

The disposal of electronic devices along with household waste is prohibited. Old equipment can be disposed of free of charge at the collection points provided by your local authority. You can also return the equipment to C.Ed. Schulte GmbH Zylinderschlossfabrik. Please ensure that the correct carriage costs are paid for the return.

Correct disposal of packaging

Most of the component packaging is made from environmentally friendly, reusable materials. Specifically, these are:

 $\ensuremath{\ensuremath{\boxtimes}}$ Outer packaging and inlays made of cardboard

☑ Polythene (PE) films used in packaging or for protection

Please dispose of the packaging in an environmentally friendly way by separating the waste materials.





C.Ed. Schulte GmbH Zylinderschlossfabrik Friedrichstraße 243 D-42551 Velbert +49 2051 204 0

info@ces.eu

www.ces.eu