
Assembly and operating instructions

DOM AccessManager Terminal

EDV-Nr. ##### / 0 / gb / 10.08 / Version 1.0

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Product description

With the enhanced DOM concept, intelligent terminal equipment in connection with the new DOM AccessManager Terminal (DOM ACM Terminal) are networked without any time-consuming and expensive cabling work.

The network-on transponder can thus be managed easily from a central location. With intelligent transponders, information about access authorisations and time zones are stored on the locking device itself. Consequently the time-consuming start of each individual terminal equipment will be obsolete when changes are to be programmed.

The DOM ACM terminal at first updates the validity of the authorisations with every entry (if required), available on the card. Subsequently the access control functions will be performed which are also available with a DOM AccessManager.

The access authorisations can be extended by a duration which can be set in the ELS software (up to 24 hours). As a result of this, misuse of lost locking devices can be avoided.

Preconditions for the operation using intelligent transponders:

- DOM ELS Software 4.2 including online module and intelligent transponder module
- DOM Netmanager as an interface to the existing TCP/IP network
- DOM table readers
- Hitag S transponders
- DOM ACM terminal

Programming via PDA is not possible.

Scope of delivery

DOM ACM Terminal Compact in DOM design

Casing with integrated control system and reader

DOM ACM Terminal HiSec in DOM design

Casing with integrated control system and reader

+ 1 casing with DOM passive reader

As an option, the housings are also available in Siedle design.

Additionally available components

- Master card
- Programming card
- Transponder
- Continuously open card/Tac, continuously closed card/Tac
- Screw set surface frame with:
 - 4 Spax screws 3x25, cross-recessed pan head,
 - 4 washers and 4 pegs S4 each

Components required which are not supplied by DOM:

- customary outlet sockets, unless on-wall mounting with surface socket.

For your safety

Always comply with the instructions and security statements.

In this assembly and operating instructions, several sections are marked by graphical symbols. Please memorise the graphical symbols and their meanings:



Caution! This symbol marks a danger note and/or refers to an action that may cause damage to the DOM AccessManager Terminal, the DOM Passiv Reader or other objects.



Note! This symbol refers to useful information on assembly or operation.

Important information



Caution! Keep the closing devices away from small children. They might swallow small parts.



Caution! Material damage caused through incorrect storage. If you store the DOM AccessManager Terminal or the DOM Passiv Reader for a longer period of time before assembly, store all components dry and dust-free in the original packaging.



Caution! Damage through inexperienced assembly and operation. Please read these instructions completely and carefully before assembly and putting into operation. Follow the instructions step by step. The manufacturer accepts no liability for damage resulting from an inexperienced assembly or operation.



Caution! DOM AccessManager Terminal and DOM Passive Reader must not be used in explosive areas.



Caution! Metallic materials nearby the DOM AccessManager Terminal and the DOM Passive Reader may become warm due to eddy currents generated by the reading area.



Caution! After a voltage breakdown, date and time must be checked and adapted if required.



Caution! You can modify the configuration described in the following (page 14 and 15) in connection with the DOM ELS software only (version 4.2 or higher including online module and intelligent transponder module). The standard configuration is set ex factory in all cases.

Assembly

Proceed in the described order and pay attention to the notes and illustrations.



Caution! Adhere to the VDE-regulations [association of German electrotechnicians] and the regulations of your local energy supply company.



Caution! Material damage caused by too strong tightening of screwed connections. Always comply with the specified torques.



Caution! If you want to operate the DOM AccessManager Terminal with one or several DOM passive readers via the RS485 interface, you have to connect one resistor (100Ω) to each of the terminals 4 and 5 of the last reader and of the control system for termination purposes (see figure 8 on page 11).



Note! For power supply of the DOM AccessManager Terminal you need a stabilized, sufficient power supply of 12 V to 24 V/AC/DC which is not included in the delivered parts.



Note! The DOM AccessManager Terminal and the DOM Passive Reader can be mounted at customary outlet sockets (dimensioned \varnothing 60 mm, depth 42 mm). In case of online-connection, an outlet socket, dimensioned \varnothing 60 mm, depth 63 mm should be used. If no outlet socket is available, you can use the surface frame of DOM to replace the outlet socket.



Note! In order to prevent manipulation attempts, the DOM AccessManager Terminal must be installed in the protected area in order that unauthorized persons have no access to the control.



Note! The reading areas of two Readers (DOM AccessManager Terminal or DOM Passive Reader respectively) can interfere with each other. Therefore, always install the units in sufficient distance (more than 50 cm) from each other to avoid interferences. A smaller distance can cause an authorized closing device to be recognized with delay.



Note! Metallic objects in the immediate neighborhood of the DOM AccessManager Terminal or the DOM Passive Reader respectively or other interference can reduce the range.



Note! The outlet socket has to be installed in such a way that the mounting frame can be mounted straight.



Note! When mounting the surface frame, take the drilling template from these instructions and mark the drill holes.

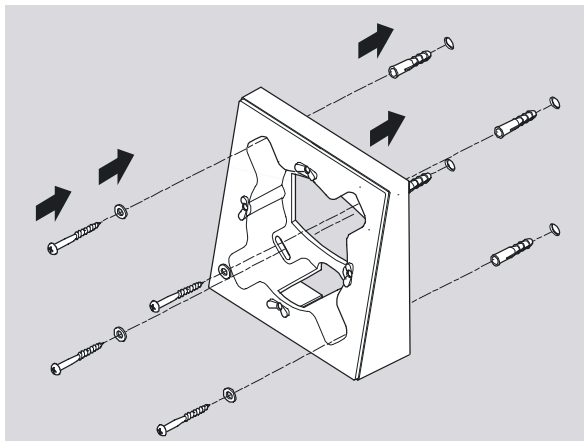


Note! Wiring and visualization/signalization of the configuration stored in the terminal (SPS) are described in the respective documentation. The following only explains the standard configuration ex works.



Note! Regarding access control systems you have to use special door openers with free wheeling diode.

1. Install all connecting cables first. The generally applicable regulations (VDE) have to be complied with for the installation.



Illustr. 1: Mount surface frame

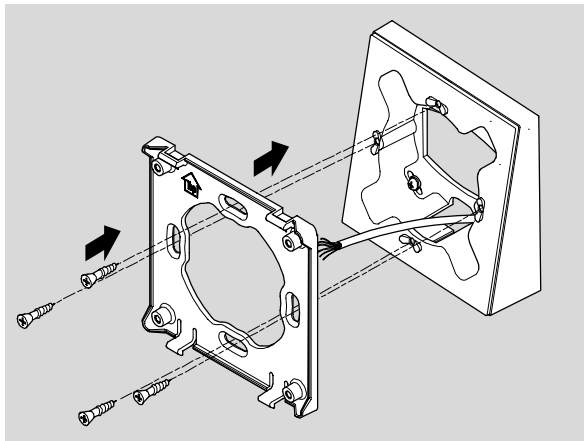
2. If you use the surface frame, drill the marked holes and position the pegs (S4).
3. Align the surface frame in such a way that the top edge also runs horizontally.
4. Fix the surface frame using the washers and the Spax screws (3x25).



Note! The direction of installation for the mounting frame is marked with an arrow. The arrow has to point to the top. The lock clamp points down.

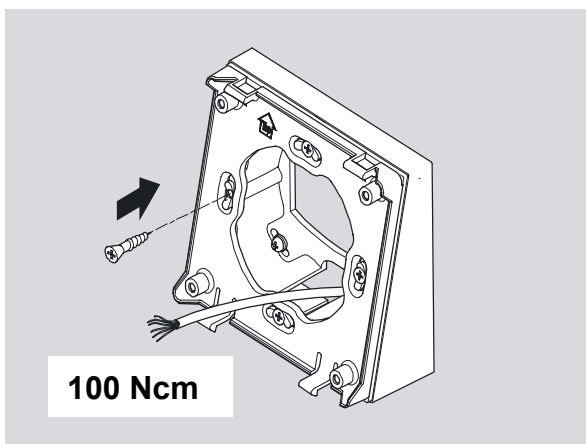


Caution! Material damage caused through too strong tightening of screwed connections. Always comply with the specified torques.



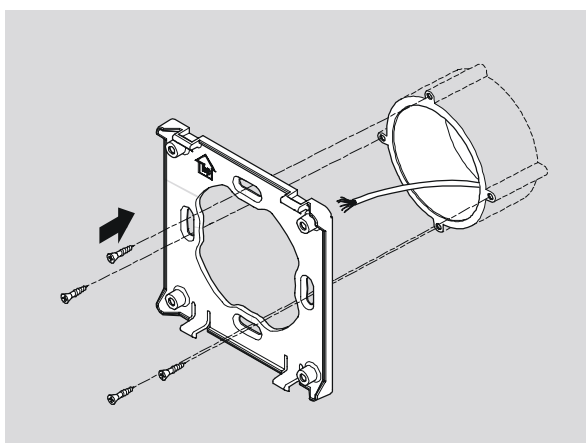
Illustr. 2: Mounting frame

5. Pass the connecting cables through the mounting frame.
6. Put the Spax screws into position (3x12) lightly at first.



Illustr. 3: Screw on the mounting frame

7. Align the mounting frame in such a way that the top edge is also aligned horizontally.
8. Tighten the Spax screws (100 Ncm).



Illustr. 4: Mounting frame

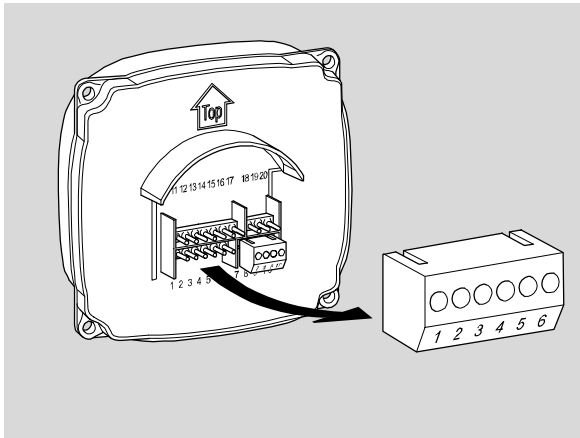
9. If you use an outlet socket, screw the mounting frame directly on the outlet socket using the Spax screws (3x12).



Note! The steps for the assembly of the DOM AccessManager Terminal, of the DOM Passiv Reader and the cover for the outlet socket and the surface frame are identical. In the following illustrations you will therefore only see the mounting frame.



Caution! Do not tighten the screws of the connectors as long as the connectors are plugged in. They might damage the contact pins.

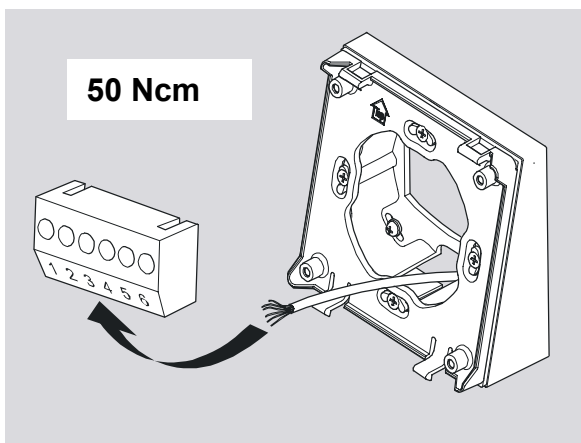


Illustr. 5: Connector

10. Carefully remove the plug-in connectors at the back of the electronics.



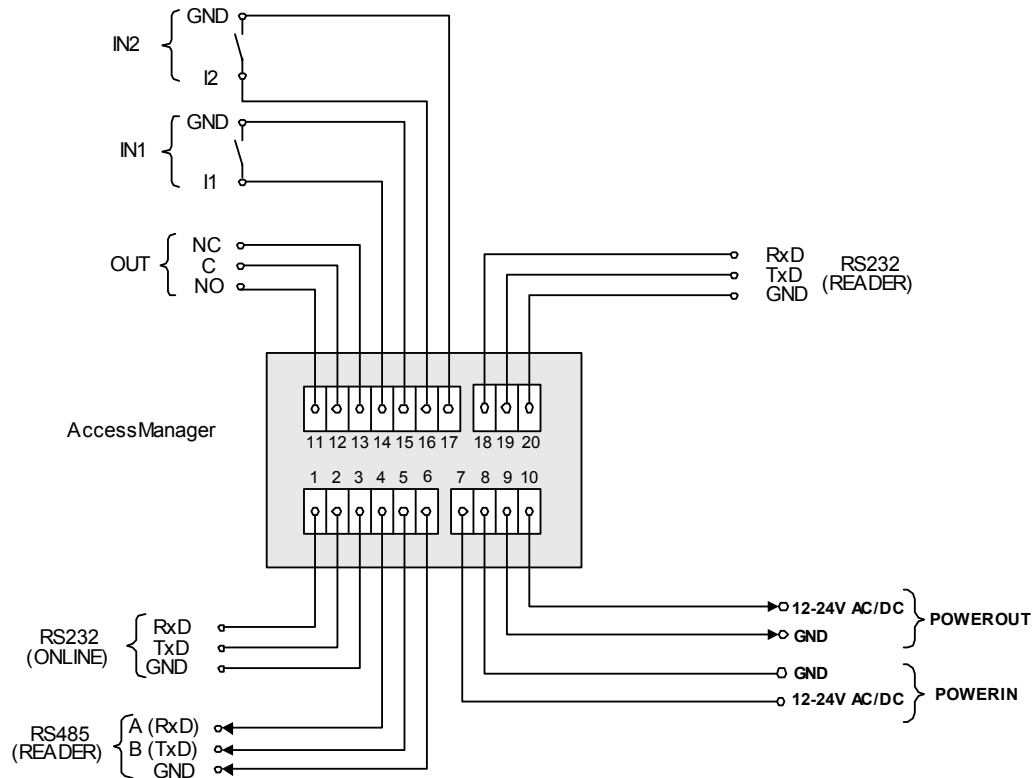
Caution! When selecting and connecting external components (actuators, etc.), comply with the values for the voltage sustaining capability and the current carrying capacity of the input and/or output of DOM AccessManager Terminal stated in the technical datasheet of these instructions. The manufacturer accepts no liability for damage caused through the use of unsuitable external components.



Illustr. 6: Connect connecting cable

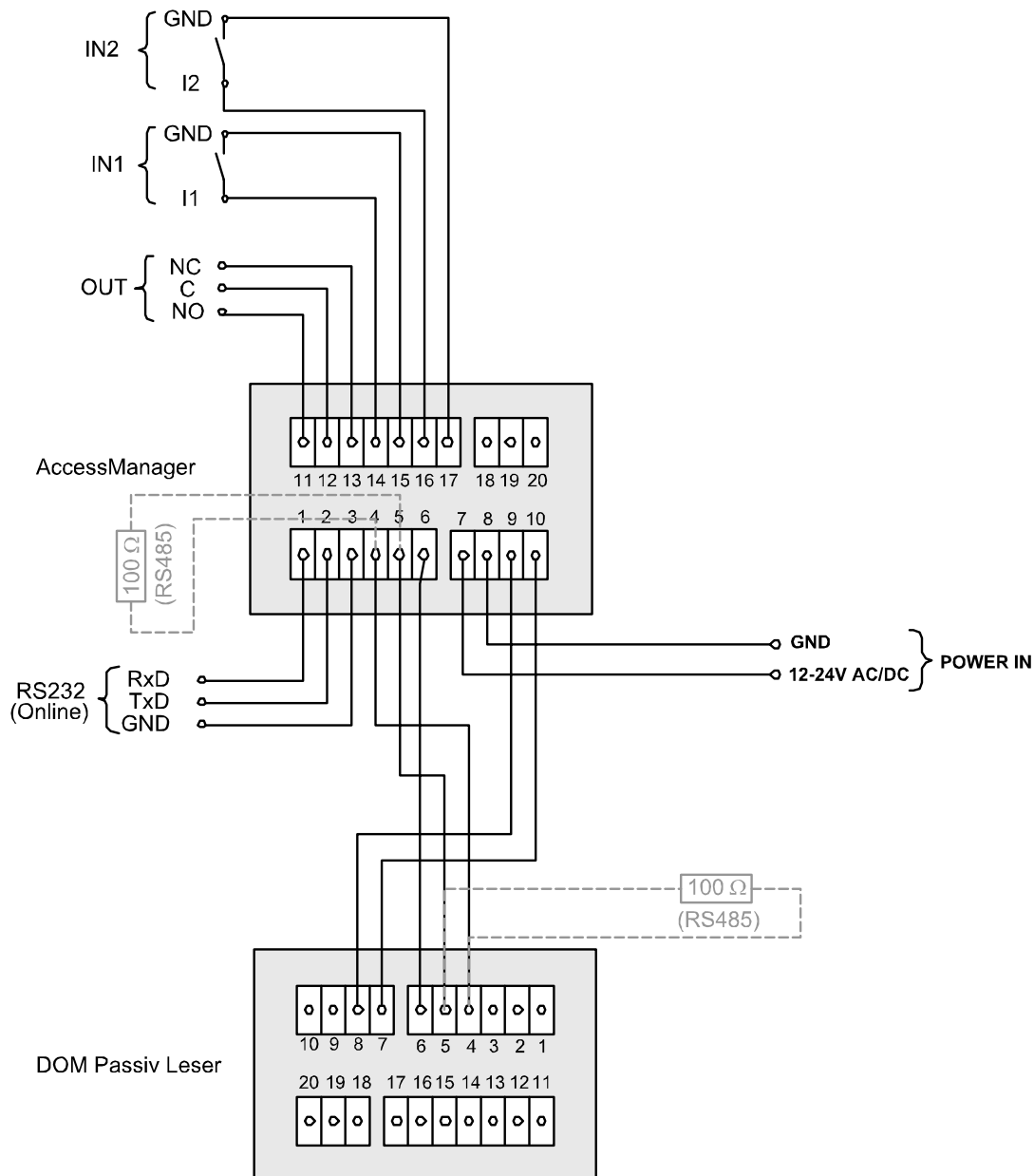
11. Loosen the terminal screws.
12. Remove the insulation from the ends of the cables: cable coating 40 mm, individual core 5 mm.
13. Mount suitable connector sleeves.
14. Connect the connecting cables according to the wiring diagram below.
15. Tighten the terminal screw (50 Ncm).

For logging of events or generating a warning, a potential-free door contact switch may be connected, for example. Operations of this contact are logged in the event memory of the DOM AccessManager Terminal.



Illustr. 7: Wiring diagram for DOM AccessManager Terminal Compact

No.	Description	Function	
1	RxD_a	Receive RS232	Online connection (DOM NetManager/PC)
2	TxD_a	Transmit RS232	
3	GND_a	Ground for RS232	
4	RxD_b	Receive RS485 A	Connection reader ↔ control unit
5	TxD_b	Transmit RS485 B	
6	GND_b	Ground for RS485	
7	12-24V	Voltage supply	Voltage supply
8	GND	Voltage supply	
9	GND	External voltage	
10	12-24V	External voltage	
11	S	Normally open contact, output	Output (change-over contact)
12	C	Common contact, output	
13	Ö	Normally closed contact, output	
14	I1	Input 1	2 potential-free outputs, e.g. door contact or release key
15	GND	Input 1	
16	I2	Input 2	
17	GND	Input 2	
18	RxD_c	Receive RS232	Connection reader ↔ control unit
19	TxD_c	Transmit RS232	
20	GND_c	Ground for RS232	



Illustr. 8: Example of wiring diagram for DOM AccessManager Terminal HiSec via RS485

The addressing of actuators (door opener etc.) by the DOM AccessManager Terminal is made via a potential-free relay change-over contact. The connections are labeled NO, NC and C. A potential-free normally closed contact (C-NC) and a potential-free normally open contact (C-NO) are provided.

You can connect potential-free switches or pushbuttons to the inputs.

These inputs must be used in accordance with the given SPS configuration. Ex works, standard configuration is set. In this case, the input IN1 is the door contact (normally closed contact) and the input IN2 is the release key (normally open contact).



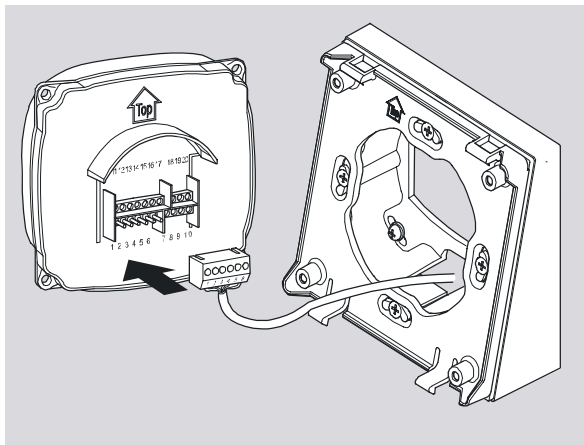
Caution! If you want to operate the DOM AccessManager Terminal with one or several DOM passive readers via an RS485 interface as shown in our example, you have to connect one resistor (100Ω) to each of the terminals 4 and 5 of the last DOM passive reader and of the control unit.



Caution! Before continuing the assembly, check all connections once again. System components may get damaged through an incorrect wiring.



Note! The direction of installation for the DOM AccessManager Terminal and the DOM Passiv Reader is marked with an arrow. The arrow has to point to the top. After the installation, the light-emitting diodes are on the right-hand side respectively.

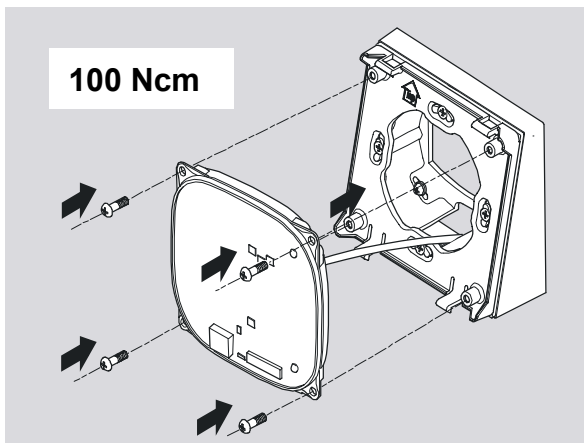


16. Fit the contactor(s) accurately on the contact pins.

Illustr. 9: Contactor



Caution! Material damage caused through disconnected cables or pulled-out connectors. Make sure that the cables are stowed away carefully and without drawing them in the outlet socket and/or the surface frame.



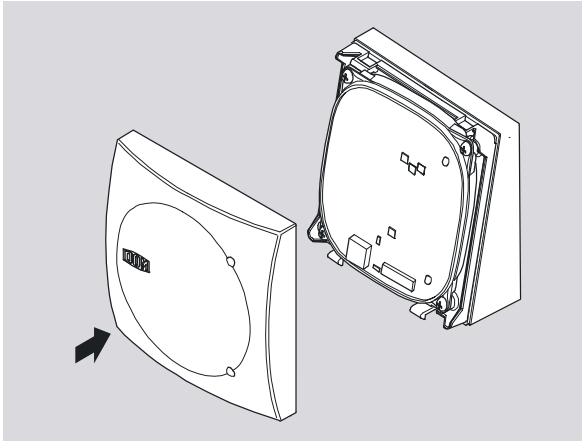
17. Place the electronics on the mounting frame.

18. Fix the electronics on the mounting frame (100 Ncm) using the pan head screws (3x8).

Illustr. 10: Screw on electronics (here: reader)



Note! Locking it in place is facilitated if you carefully push back the locking brackets of the mounting frame (e.g. with a screwdriver).



19. Place the cover on top and lock it in place exerting a slight pressure.

Illustr. 11: Cover wall-mounted casing

If you want to take off the cover later on, carefully push back the two locking brackets (e.g. using a screwdriver) and remove the cover from the mounting frame. The remaining components are dismantled in reverse order to the assembly.

Configuration DOM ACM Terminal Compact

Standard configuration

Connection of inputs/outputs:

Input 1 = door contact (normally closed contact)

Input 2 = external door contact (release key/normally open contact)

Output = potential-free relay change-over contact (e.g. for addressing of the actuator)

Description

In idle state the red LED is permanently lit. Upon presentation of an authorized transponder, the red LED switches off and the green LED and the buzzer are activated.

In the following, the signalling of the access control is described which is effected immediately after the validity is extended.

The output remains activated for contact holding period (cf. also page 17) as set via master ID card. Upon delivery it is set to 3 s. During this time, the green LED is permanently lit.

The output and the permanent lighting of the green LED are either switched off after expiry of the contact holding period or by operating/opening the door contact. Afterwards the red LED will be permanently lit again.

If the external door contact is operated, signaling and activation of the output corresponds to the presentation of an authorized transponder.

If during open door contact a release is initiated using an authorized transponder or external door release, the function is switched off after expiry of the contact holding period.

If a door is not locked after a period to be set, an alarm is generated (the red LED will be permanently lit and the acoustic signal will be emitted until the door is closed again).

The time frame for the alarm and the switching on and off of this alarm is set via software (PC). Upon delivery, the warning is deactivated.

Configuration DOM ACM Terminal HiSec

Standard configuration

Connection of inputs/outputs of the DOM AccessManager Terminal:

Input 1 = door contact (normally closed contact)

Input 2 = external door opening contact (release key/normally open contact)

Output = potential-free relay change-over contact (e.g. for addressing of the actuator)

Connection of inputs/outputs of the DOM Passive Reader:

Input 1 = not in use

Input 2 = not in use

Output = potential-free contact for addressing the actuator when the warning “door open for too long” is generated

Description

In idle state the red LED is permanently lit. Upon presentation of an authorized transponder, the red LED switches off and the green LED and the buzzer are activated.

In the following, the signalling of the access control is described which is effected immediately after the validity is extended.

The output remains activated for contact holding time (cf. also page 17) as set via master ID card. Upon delivery this is set to 3 s. During this time, the green LED is permanently lit.

The output and the permanent lighting of the green LED are either switched off after expiry of the contact holding period or by operating/opening the door contact. Afterwards the red LED will be permanently lit again.

If the external door contact is operated, signaling, visualization and activation of the output corresponds to the presentation of an authorized transponder simultaneously at both units.

If during open door contact a release is initiated using an authorized transponder or external door release, the function is switched off after expiry of the contact holding period.

If a door is not locked after a period to be set, an alarm is generated (the red LED will be permanently lit at both units and the acoustic signal will be emitted by both units until the door is closed again).

The time frame for the alarm and the switching on and off of this alarm is set via software (PC). Upon delivery, the warning is deactivated.

The transponder can be read by both units.

The output at the Reader is activated when the warning “door open for too long” is generated.

Putting into operation

After having connected all cables in a workmanlike manner, you can put DOM AccessManager Terminal into operation.



Caution! In order to put the DOM AccessManager Terminal into operation, you only need the master card. It is used to set the system information. This is a one-off process that has to be carried out and is **not reversible**.



Note! Programming using the master and programming cards is carried out on the DOM AccessManager Terminal. All status messages and acknowledgements are carried out exclusively via the DOM AccessManager Terminal for this reason.

Initialize device

Proceed with the following steps.



Note! As soon as the power supply has been switched on, DOM AccessManager Terminal is ready for operation.

The control unit is fitted with a real-time clock used for example to generate events and to manage time zones (only if the ELS software is used). In the case of a power failure, the clock continues to run correctly for 48 hours, provided that the DOM AccessManager Terminal has been permanently supplied with power for at least one hour before the power failure.

Check time and date in the case of a voltage drop.

1. Switch on the power supply: Switching on the power supply the green LED lights up for a short while, and an acoustic signal is generated. Then the red LED is illuminated permanently.
2. Hold the master card directly in front of the DOM AccessManager Terminal (approx. 1 cm): The green light emitting diode flashes short twice and long once. At the same time, first two short signals and then one long signal are generated. Then the red LED is illuminated permanently again.



The DOM AccessManager Terminal has been taken into operation.



Note! If the red LED flashes three times and afterwards lights red in a permanent manner, date and time are set improperly or another error has been detected by the firmware.

Keep the master card in a safe place that can only be accessed by authorised persons. The master card has no closing device function. If the master card gets lost, you have to contact your dealer. An expensive new programming process becomes necessary.

Setting the contact-keeping time



Note! In the state of delivery, the contact keeping time is set to 3 seconds. You can change this time to a value between 1 and 25 seconds.

Proceed with the following steps:

1. Please hold the master card flat and with a little distance in front of the DOM AccessManager Terminal. Remove the master card. Presenting the card will be confirmed by the green LED flashing twice and by two signalling sounds at the same time.
2. Now, again please hold the master card in front of the DOM AccessManager Terminal and keep the master card in the detection field of the DOM AccessManager Terminal: the green LED again flashes twice and you will hear two signalling sounds. Afterwards, the green LED starts flashing approximately every second. At the same time a signalling sound will sound every second. Every signalling sound means one second of the contact holding time.
3. Please maintain the master card in front of the DOM AccessManager Terminal in accordance with the desired contact holding time.
4. Remove the master card as soon as the contact holding time has been reached: the green LED will flash twice and you will hear two signalling sounds to confirm the aforementioned. Afterwards, the red LED returns to permanent illumination.

You can repeat this process at any time.



Note! When the maximum contact holding period is exceeded, the programming process is cancelled and the contact holding period remains at the previously set duration. You will have to repeat the process in this case.

Setting the contact-keeping time

				keep in detection field				
				Maintain in the detection field				
						
				As soon as the contact holding time is reached, remove the master card.				

Operation

Now you can use the master card to create programming cards with which closing devices can be created on the other hand.



Note! The master or programming cards do not serve as closing devices.

Master card

The master card has the following functions:

- Create and delete individual closing devices, programming cards and programming devices;
- Delete all closing devices, programming cards and programming devices at the same time;

Programming card

The programming card has the following functions:

- Create and delete individual closing devices;
- Delete all closing devices.

Closing device (key rings, Clip Tac, card, etc.)

- Close and open.

Continuously open card/Tac

The continuously open card has the following functions:

- Set electronics in continuously open position;
- Reset electronics in the normal state;
- Change from position continuously closed to continuously open.

Continuously closed card/Tac

The continuously closed card has the following functions:

- Set electronics in continuously closed position;
- Reset electronics in the normal state;
- Change from position continuously open to continuously closed.

Status messages

Programming using the master or programming card is carried out on the DOM AccessManager Terminal. All status messages and acknowledgements are therefore carried out exclusively via the DOM AccessManager Terminal.

Acknowledging aborts

In general, if the defined time frame (removal or presentation of master or programming card and closing device) are not adhered to in the programming process, a cancellation occurs. Such a cancellation is confirmed by two short acoustic signals and two flashes of the red LED.

Open and close

In order to open or to close, you only have to hold an authorised closing device at a small distance (1 cm) in front of the DOM AccessManager Terminal or the DOM Passiv Reader.

Extending the validity

Upon each entry, the DOM ACM terminal updates the validity of time-limited authorisations available on the intelligent locking device. The access authorisations can be extended by a duration which can be set in the ELS software (up to 24 hours). When entering a valid locking device, at first its validity will be updated. If the locking device simultaneously features access authorisation, it will be released.

The extension of its validity will be acknowledged by the green LED blinking twice and an acoustic signal sounding twice.

Status messages and signal sequence

After having completed programming, you can use your DOM AccessManager Terminal.



Note! Make yourself familiar with the signal sequence described in the following in order to be able to inform yourself on the operating state of your DOM AccessManager Terminal.






Note! Signalization/Visualization about whether an authorized/unauthorized closing device has been presented is made at the relevant unit.

Signalization and Visualization at the units (DOM AccessManager Terminal and Passive Reader) depends on the configuration given in the DOM AccessManager Terminal (SPS). Signalization/ visualization of the standard configuration is described below:












Power supply ok. (basic state):

The red LED is illuminated permanently.

	Control unit	Passive reader
		

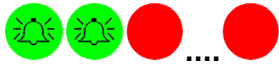
Recognition of an authorised transponder with access authorisation

The transponder is valid and/or its validity extended and subsequently the change-over contact will be triggered. The green LED will at first blink twice and then be illuminated for the duration of the set contact holding time. Signalling will be effected at the respective unit where the transponder was displayed.

	Control unit	Passive reader
	    	    




Recognition of an authorised transponder without access authorisation

The transponder is valid and/or its validity extended, however the transponder does not feature access authorisation and the change-over contact will not be triggered. The green LED will blink twice and you will hear two acoustic signals. The red LED will go out once and then be on permanently. Signalling will be effected at the respective unit where the transponder was displayed.

	Control unit	Passive reader
		




Recognition of a transponder which cannot be programmed

The red LED will go out and blink 5 times and you will hear five acoustic signals. Subsequently, the red LED will be illuminated permanently. Signalling will be effected at the respective unit where the transponder was displayed.

	Control unit	Passive reader
		

Recognising an unauthorised transponder:

Signalization is realized at the unit where the transponder was presented. The red LED will go out once and then be on permanently.

	Control unit	Passive reader
		






Continuously open mode

You can clear the DOM AccessManager Terminal and the DOM Passiv Reader permanently using a continuously open card/Tac. As long as this mode is active, all persons have access, no matter whether they have an authorised transponder or not.

How to set the Permanently-open mode

Hold the authorized Permanently-open card/Tac directly (1 cm) in front of the DOM AccessManager Terminal or a connected DOM Passive Reader.






An acoustic signal is generated. The red LED is switched off and the green LED will be permanently lit.

	Control unit		Passive reader	
				

How to reset the Permanently-open mode

Hold the authorized Permanently-open card/Tac again in front of the DOM AccessManager Terminal or a connected DOM Passive Reader.

You will hear a beep and the green LED switches off. Control electronic returns to its normal state. Subsequently the red LED is permanently lit.

	Control unit		Passive reader	
				



Note! If you have set the Permanently-open mode, you can use the Permanently-closed card/Tac to directly switch to the Permanently-closed mode. You do not switch back to normal mode.



Note! If there is a voltage breakdown when the Permanently-open mode is activated, the DOM AccessManager Terminal resets to normal mode of operation. After voltage supply is reestablished, the Permanently-open mode is no longer activated and you have to set it again.










Continuously closed mode

You can lock the DOM AccessManager Terminal and the DOM Passiv Reader permanently using a continuously closed card/Tac. As long as this mode is active, persons who have an authorised transponder are also denied access.

How to set the Permanently-closed mode

Hold the authorized Permanently-closed card/Tac directly (1 cm) in front of the DOM AccessManager Terminal or a connected DOM Passive Reader.






An acoustic signal is generated. The red LED is switched off and the green LED flashes once. Subsequently the red LED is permanently lit.

	Control unit						Passive reader					
												

How to reset the Permanently-closed mode

Hold the authorized Permanently-closed card/Tac again in front of the DOM AccessManager Terminal or a connected DOM Passive Reader.

You will hear a beep and the green LED flashes once. Control electronic returns to its normal state. Subsequently the red LED is permanently lit.

	Control unit			Passive reader		
						



Note! If you have set the Permanently-closed mode, you can use the Permanently-open card/Tac at the DOM AccessManager Terminal or the DOM Passive Reader respectively to directly switch to the Permanently-open mode. You do not switch back to normal mode.



Note! If there is a voltage breakdown when the Permanently-closed mode is activated, Permanently-closed function remains active. After voltage supply is reestablished, the Permanently-closed mode is reactivated automatically.

Programming and managing using software

The DOM AccessManager Terminal is provided with a RS232 interface and an infrared interface. These interfaces can be used to exchange data with a PC or a Laptop.

If you are provided with ELS software (version 4.2 or higher) you can choose to manage and program your DOM AccessManager Terminal online. You can manage transponders and authorizations and further functions which are only accessible via software. These include, among others:

- Extension of the time-limited validity (up to 24 hours)
- Switching on or off of the warning
- Setting of SPS parameters like contact holding period, duration of warning etc.
- Creating and deleting of connected DOM Passive Reader
- Querying of the DOM Passive Reader registered in the DOM AccessManager Terminal and of their status etc.
- Etc.

In addition, the use of the software offers more convenience and clarity for the management of larger systems, compared to the use of the master card.



Note! Instructions for programming and managing DOM AccessManager Terminal using the ELS Software are described in the operating instructions for the software.

Maintenance

The DOM AccessManager Terminal and the DOM Passiv Reader are maintenance-free.

Storage/maintenance

If the DOM AccessManager Terminal and the DOM Passiv Reader are to be stored for a prolonged period of time before assembly or after use, store it dry and dust-free in the original packaging.



Caution! Material damage caused through the use of aggressive cleaners. Do not use any aggressive cleaners, graphite or oil. Only clean the casings and the closing devices using a smooth, moistened leather cloth without cleaners.

Disposal

Please note that DOM AccessManager Terminal and the DOM Passiv Reader partially consist of electronic components that have to be disposed of in a specific way. Always comply with all customary provisions for the protection of the environment when disposing of them.

You can also send the components of your DOM AccessManager Terminal and the DOM Passiv Reader in their original packaging back to the manufacturer.

Technical data



Note! The indicated technical data represent the latest status. Technical modifications reserved.

DOM AccessManager Terminal

Technical Specifications:

- For use in DOM intelligent transponder concept (DOM Protector®, AccessManager)
- extension of the validity of up to 3.000 intelligent Hitag-S transponder (changes of the authorisations have to be done by desk reader or DOM-ITT)
- validity is extended either of the actual day or for max. 24 hours (specified by ELS-Software)
- operates also as access control device (control of doors, turnstiles, etc.)
- available as Compact & Hisec version

Power supply:

- external: 12-24 V AC/DC \pm 10%

Current consumption:

- 250 mA (only for reader/control unit)

Data preservation after power failure:

- date and time: 48 hours at +20°C
- authorizations and events: at least 10 years

Interfaces:

RS232-Interface for connecting DOM NetManagers or PC:

- data rate: default 38400 Baud
- term 1: RxD
- term 2: TxD
- term 3: GND

RS485- Interface for connecting up to one external reader:

- addressing: via Software
- function: half duplex
- data rate: default 38400 Baud
- term 4: A (receive)
- term 5: B (transmit)
- term 6: GND
- Termination RS485: term. 4 and 5 (100 Ω)

power supply:

- term 7/8: power supply from external
- term 9/10: power supply for external devices


RS232-Interface for connecting one reader

- term 18: RxD
- term 19: TxD
- term 20: GND
- data rate : default 38400 Baud

Connecting cable:

- recommended cable type: JY(St)Y 2 \times 2 \times 0,6
- maximum cable length: 15 m (RS 232)
500 m (RS 485)

Inductive transponder interface:	<ul style="list-style-type: none"> • reading range: up to 10 cm • frequency: 125 kHz • field strength in 10 m distance: < -6 dB μA/m in conformity with ETSI EN 300 330
	<ul style="list-style-type: none"> • Hitag transponders: Hitag 1, Hitag 2, Hitag S • EM transponders: 4100, 4102, 4150, 4450
	transponder types: <ul style="list-style-type: none"> • DOM Tac, DOM Clip Tac, ISO card transponder • DOM ((o)) butler transponders with passive inlay • other types have to be checked
Infrared-Interface:	<ul style="list-style-type: none"> • location: behind DOM-Logo • wave length: 890 nm • angle: $\pm 24^\circ$ • data rate: 38400 Baud
Inputs control unit:	2 inputs for floating switches: <ul style="list-style-type: none"> • max. wire impedance: < 10 Ω • max. wire length: < 20 m
	connected to screw-clamp: <ul style="list-style-type: none"> • term 14/15: Input 1 • term 16/17: Input 2
Outputs control unit:	1 floating change over contact: <ul style="list-style-type: none"> • electrical strength: 30V DC 125V AC • current load: 1 A/DC 0,3 A/AC
	connected to screw-clamp: <ul style="list-style-type: none"> • term 11: normally open contact (NO) • term 12: common contact (C) • term 13: normally close contact (NC)
Combination of In-/Output:	logical and chronological combinations are possible; for example: simple access-control (change-over contact)
Signalling:	<ul style="list-style-type: none"> • 2 LEDs: red/green • buzzer
Programming:	<ul style="list-style-type: none"> • with Master-Card ; Programing -Card • with programming medium (PC) via Infrared or Online
Memory contents:	storage of access authorisations in the cylinder: <ul style="list-style-type: none"> • max. 3.000 Transponder with 4 byte transponder serial number
	storage of time zones: <ul style="list-style-type: none"> • storage of max. 32 time zones • thereof 31 freely definable with up to 3 time intervals per day
	storage of events: <ul style="list-style-type: none"> • ring buffer for the last 3.000 events
	storage of programming media: <ul style="list-style-type: none"> • max. 5 programming cards and 5 PCs

Approvals:	CE, EMV, in conformity with R&TTE-rules 	
Temperature range:	• -20 up to +55 °C	
Relative humidity:	• 20% up to 95% (no condensation)	
Protection class:	• IP54 when completely install (Tested in according to DIN VDE 0530-5)	
Assembly:	DOM housing	Siedle module (Compact and HiSec)
	in-wall mounting with flush boxes Ø 60 × 42mm (DIN VDE 0606, DIN VDE 0471, DIN IEC 695)	Siedle 6xx
	Alternative with surface mounted frame	HiSec: • only reader unit in Siedle • control unit in DOM housing • alternatively reader unit in Siedle Module available
	Metallic objects close to the reader or other disturbing effects may reduce the range of communication. Minimum distance between two AccessManager > 50cm.	
Weight:	approx. 80g	approx. 170 g
Size:	85 × 85 × 16,5 mm (cap of housing) 85 × 85 × 24 mm (including feeder clamps) 85 × 92 × 40 mm (with surface mounting frame)	100 × 100 × 25 mm (Module 6xx)
Plastics:	mounting frame: PA6 GF30 cap of housing and surface mounting frame: ASA	
Colour of housing:	visible components alternatively: • RAL 9010 white • silver metallic (similar to RAL 9006, 9007)	Sichtbare Komponenten wahlweise in: • white • silver metallic • titan metallic • graphite - brown metallic

Warranty

The limitation period for the customer's rights is twelve months after the delivery of the delivery item to the customer. The statutory periods of limitation shall remain valid for claims for damages on the part of the customer for other reasons than defects of the delivery item as well as with regard to the customer's rights in the case of a fraudulent concealment of defects or wilfully caused defects. The limitation provisions of § 479 German Civil Code shall remain unaffected.

Should you have any questions that are not answered by the information contained in these assembly and operating instructions, please contact one of the branch offices in your country directly.

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Drilling template

