GAT ECO.Side Lock 7000
Battery Powered MIFARE® and ISO 15693 Lock

Gantner
technologies

Application

The GAT ECO.Side Lock 7000 is the ideal solution for the convenient electronic locking of wardrobe lockers in fitness clubs, attraction parks, golf resorts and individual business applications such as filing cabinets and safe deposit boxes. Identification of system users by the lock is performed using contactless RFID data carriers (Radio Frequency Identification). Different types of data carrier media such as chip cards, chip bands and key tags are available.

The GAT ECO.Side Lock 7000 is suitable for any kind of locker material (wood, HPL, glass, steel sheet and fully synthetic materials) and can be used with both left and right handed opening doors. The various operating modes provide flexibility and allow the locks to be configured to suit specific system requirements.

Due to the mechanical compatibility with the GAT NET.Lock 7000 series a quick and simple installation of existing locker rooms using the GAT ECO. Side Lock 7000 is possible.

GAT NET.Lock BoltSet 7100

GAT ECO.Side Lock 7000

Functional description

Lockers can be electronically locked and unlocked by the GAT ECO.Side Lock 7000. The user simply presses the locker door shut and holds their data carrier next to the RFID reading center on the locker door. The lock reads the data on the data carrier and verifies the information. Following valid authorization, the locker door is then locked or unlocked accordingly by the GAT ECO.Side Lock 7000.

Locking and unlocking actions are signaled by an integrated beeper and a bi-colored LED.

The GAT ECO.Side Lock 7000 can be configured via USB, and also on-site using the programming data carrier, to operate in different modes.

Highlights

- Maintenance-free "Low-Power Technology" provides a useful life of approximately 10 years without battery replacement
- Free and personal locker mode selection
- Rental locker function
- Selectable operation mode
- Similar hardware to the GAT NET.Lock 7000 locks allows easy exchange between both lock types
- Suitable for left and right hinged doors and a variety of locker material
- Internal memory records the last 150 locker actions
- Reliable data transmission between RFID reader and data carrier
- Motor driven locking/unlocking guarantees exceptional reliability
- Locking status indicated via LED and beeper
- Configuration via a PC/laptop (USB connection)
- Vandal-proof installation
- Integrated break-in alarm

Accessories

| Description	Part No.
Manual GAT ECO.Side Lock 7000 Operating and installation instructions in English	932329
GAT NET.Lock BoltSet 7100 Door shackle carrier and booster for non-metallic doors	369535
GAT NET.Lock BoltSet 7200 Door shackle carrier and booster for metallic doors	532123
GAT NET.Lock BoltSet 7300 Door shackle carrier and booster for glass doors (adhesive not included)	774232
Batterie 3,6V Lithium LS14500 Battery for GAT ECO.Side Lock 7000	912012
GAT ECO.Side Lock Basic Set F/ISO Package with configuration software, USB cable for PC connection, 3 master data carriers, 4 system data carriers	812528
GAT Key Tag 7309, S50 MASTER Master data carrier for the GAT ECO.Side Lock 7000	816229
GAT NET.Lock Label GEA right	679034
GAT NET.Lock Label GEA NUM right Self-adhesive door label in GANTNER design, for right-hinged doors, with or without locker number	679236
GAT NET.Lock Label GEA left	370022
GAT NET.Lock Label GEA NUM left Self-adhesive door label in GANTNER design, for left-hinged doors, with or without locker number	679135

Order information

Description	Part No.
GAT ECO.Side Lock 7000 Battery operated locker lock for MIFARE® and ISO 15693 data carriers, without batteries, without bolt set, without door label	631325

www.gantner.com

Valid from June 10th, 2015 • Technical data subject to modification without notice!
DB_GAT-ECOSide-Lock7000--EN_11.indd • Part No. 642832

1

Technical data

Power supply:	2 x 3.6 V Lithium battery, type AA, SAFT - LS14500	Break-open resistance capab.:	DIN 4547-2 class C
Battery life-time:	Up to 10 years at +20 °C (68 °F)	Display element:	LED (red/green)
Data storage:	EEPROM for 150 bookings, data preservation during battery change	Configuration interface:	USB 2.0, Micro-B
		Housing material:	Plastic (PC), halogen-free, V0
Internal clock:	Quartz-controlled real time clock	Housing color:	dark gray
Reader type:	- MIFARE®, supported types:	Dimensions:	125.2 mm x 100 mm x 25 mm (4.93˝ x 3.94˝ x 0.98˝)
	Classic (1k and 4k), Ultralight®		
	DESFire EV1® (approval of the data carrier types to be used for the specific application required - approval by GANTNER)	Permitted ambient temperature:	0 to +60 °C (32 °F to 140 °F)
		Protection type:	IP 52
	- ISO 15693	Protection class:	III
		Weight:	Approx. 400 g (14.1 oz)
Frequency of reading field:	13.56 MHz		
Range of reading field:	Approx. 5 to 35 mm (0.2˝ to 1.38˝), depending on the installation and data carrier	Environment class based on VdS 2110:	II (conditions in indoor areas)

Dimensions

GAT ECO.Side Lock 7000
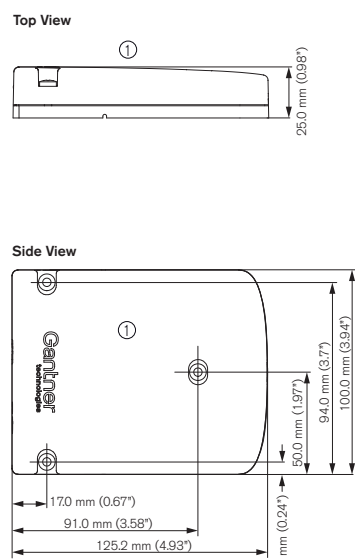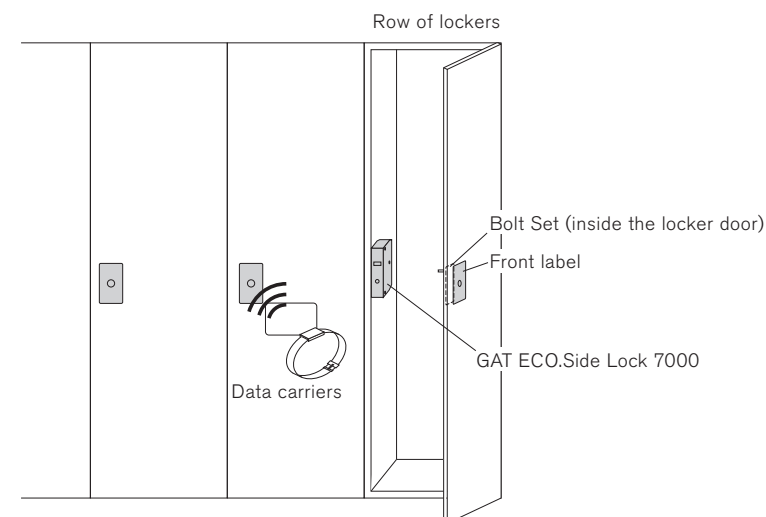
GAT NET.Lock BoltSet 7100
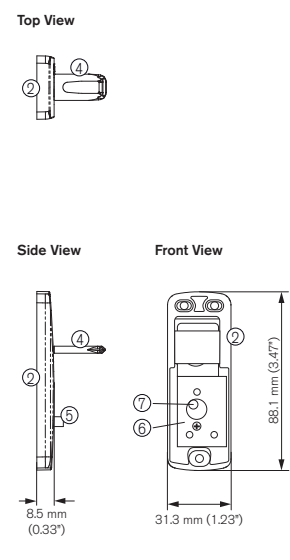
GAT NET.Lock BoltSet 7300
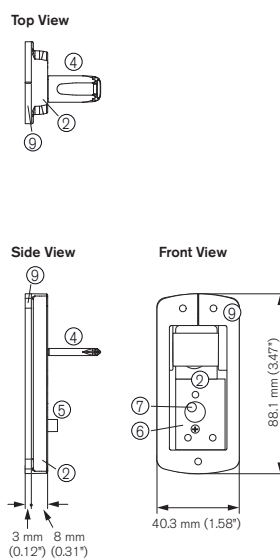
GAT NET.Lock BoltSet 7200

1. GAT ECO.Side Lock 7000
2. GAT NET.Lock Bolt Set 7100 (for non-metal doors)
3. GAT NET.Lock Bolt Set 7200 (for metal doors)
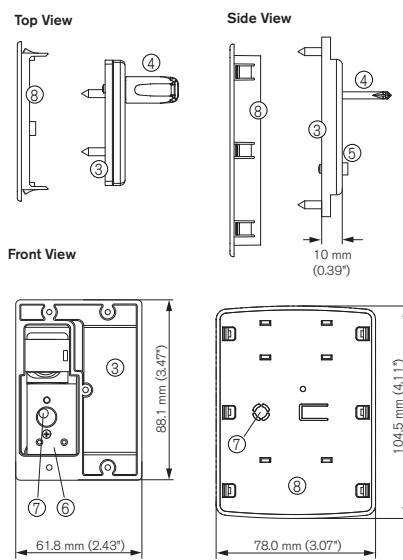
4. Door shackle
5. Door contact
6. Booster

7. Hole for status LED
8. Label Carrier
9. Metal support (for glass doors)

Typical application

Row of lockers

Bolt Set (inside the locker door)
Front label
Data carriers
GAT ECO.Side Lock 7000
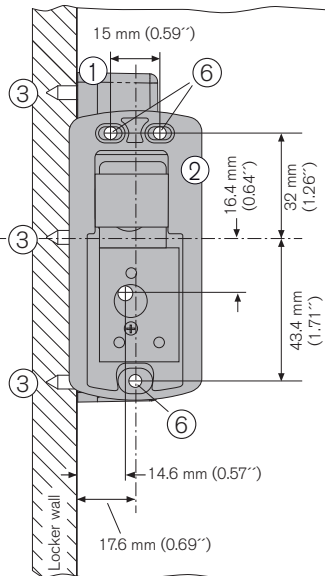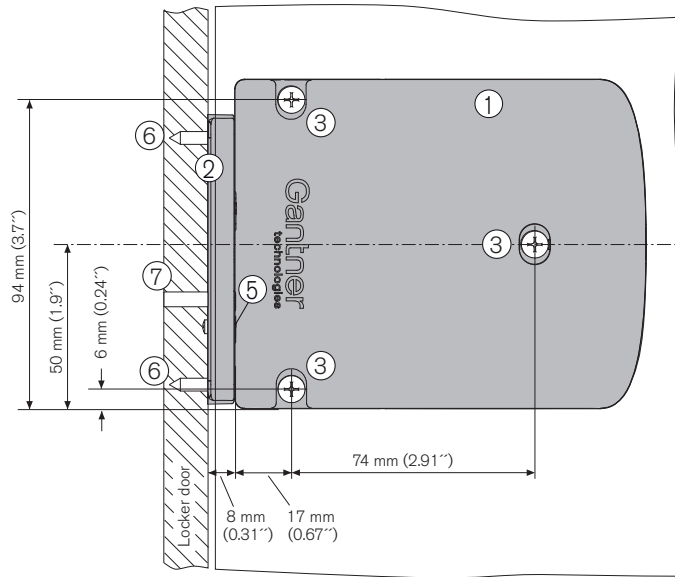
www.gantner.com

Installation Instructions

The GAT ECO.Side Lock 7000 is mounted on the inside of the locker wall using 3 screws. The bolt set including door shackle is attached to the inner side of the locker door. For non-metallic doors, only a drill hole through the locker door is required for the status LED. For metallic doors, a cut-out must be made in the locker door to accommodate the bolt set and label carrier. For glass doors, the metal support is attached to the locker door using adhesive.

Note: The GAT ECO.Side Lock 7000 needs min. 10 mm clearance from the bottom or top of the locker to allow the hole marking gauge to be used for installation.

Door status contact

The GAT ECO.Side Lock 7000 has a contact that is activated or deactivated by the door contact (5) on the bolt set when the locker door is closed or opened respectively. This function determines the open/close state of the door. It is important that this contact remains clean and undamaged to ensure the correct functionality of the GAT ECO.Side Lock 7000.

Mounting on Non-Metallic Doors

Door width

The minimum allowed door width (measured from the door shackle to the hinge) is 230 mm (9.05˝). If the door is narrower than this measurement, the door shackle will hit the locker when the door is being closed.

1. GAT ECO.Side Lock 7000
2. GAT NET.Lock Bolt Set 7100
3. Mounting screws for the GAT ECO.Side Lock 7000
5. Door contact
6. Mounting screws for bolt set
7. LED (hole in locker door)

Installation requirements for GAT ECO.Side Lock 7000 and bolt set

Please pay particular attention to the following points:

- When the locker door is pressed shut, ensure there is no gap between the bolt set (2) and the front of the GAT ECO.Side Lock 7000. Ideally the bolt set should touch the front of the lock.
- The front side of the bolt set and the GAT ECO.Side Lock 7000 must be aligned parallel to each other.
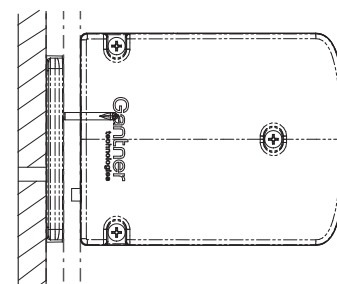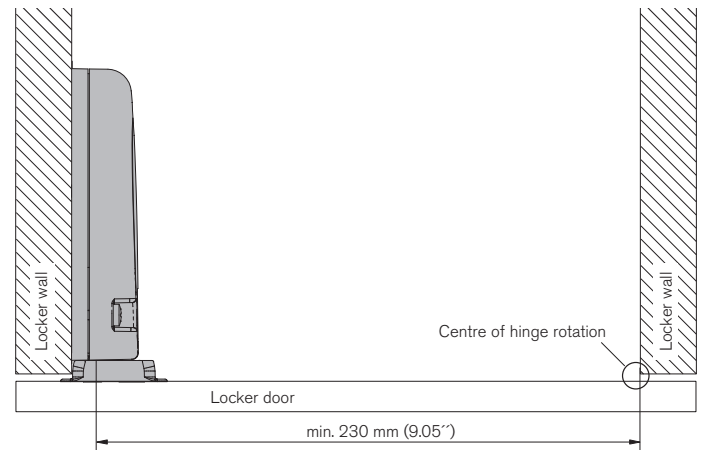

Installation procedure

Note: Before installing all locks in a new locker system, a test installation of at least one lock and a final function check must be performed. Only once the functional testing is successfully completed may the remaining locks be installed in the same way.

1. Drill three holes (3) for the GAT ECO.Side Lock 7000 into the locker wall.
2. Insert the batteries into the GAT ECO.Side Lock 7000 (see page 7).
3. Mount the GAT ECO.Side Lock 7000 with three screws (3) on the inside locker wall.
   Attention: Use the correct screws according to the type of locker material, max. Ø 4 mm (0.16˝). The maximum allowed tightening torque of the screws is 2 Nm (1.47 lb-ft).

4. Drill three mounting holes (6) for the GAT NET.Lock Bolt Set 7100.
5. Drill a hole for the status LED in the locker door (7). The recommended hole diameter is 10 mm.
6. Mount the bolt set onto the locker door using three screws.
   Attention: Use the correct screws according to the type of locker material, max. Ø 4 mm (0.16˝). The maximum allowed tightening torque of the screws is 2 Nm (1.47 lb-ft).
7. A label (GANTNER standard design or custom design) can be attached to the locker front. If a custom label design is used, ensure that a transparent field for the LED light is included in the label design.
8. Test the locker door to confirm that it can close easily and the door shackle inserts correctly into the GAT ECO.Side Lock 7000.
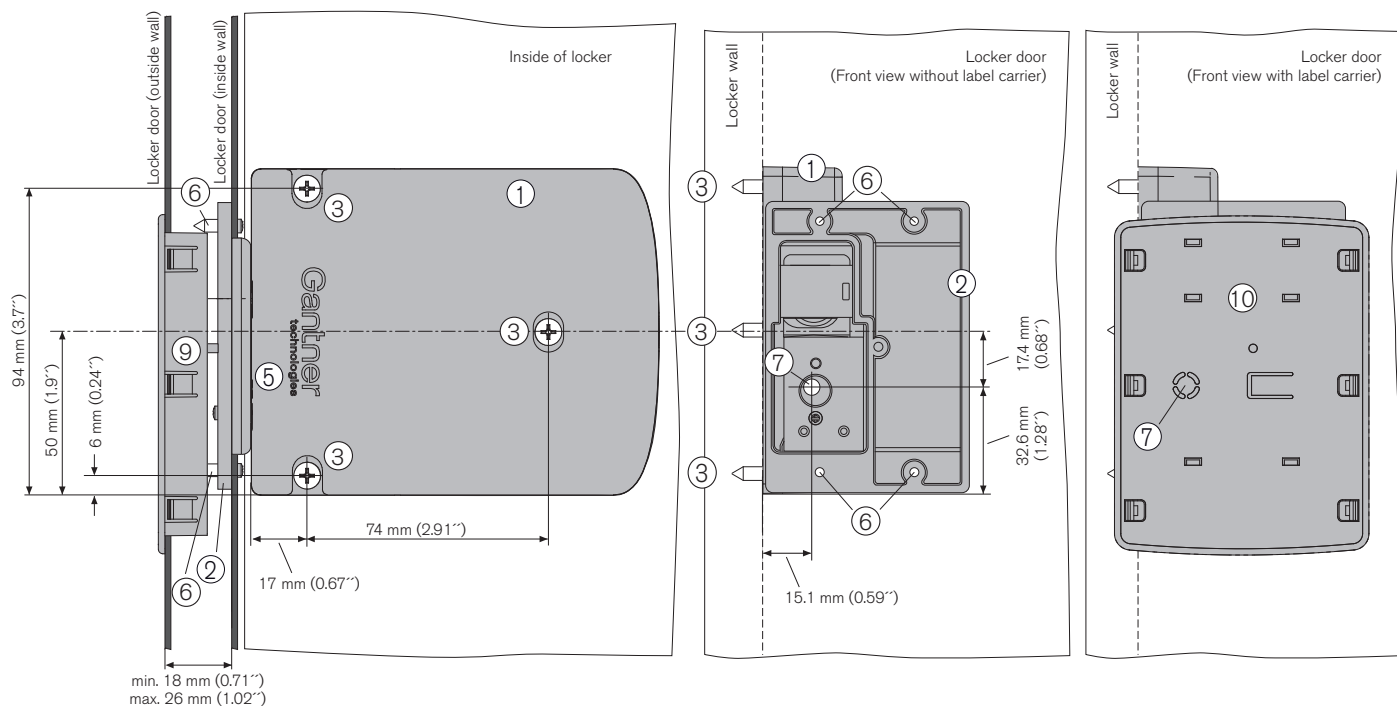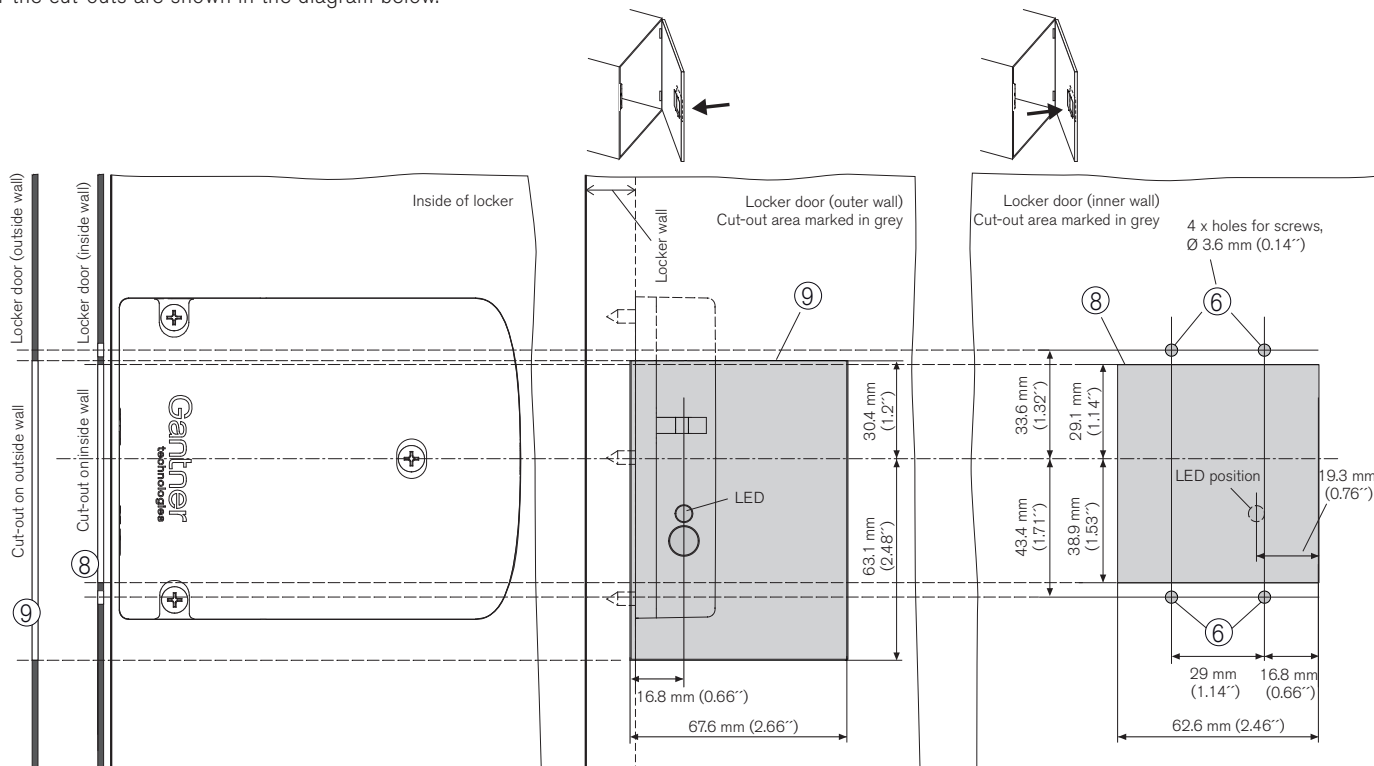
1. GAT ECO.Side Lock 7000
2. GAT NET.Lock Bolt Set 7200
3. Mounting screws for GAT ECO.Side Lock 7000
5. Door contact
6. Mounting screws for bolt set

7. LED position
8. Cut-out for GAT NET.Lock BoltSet 7200
9. Cut-out for label carrier
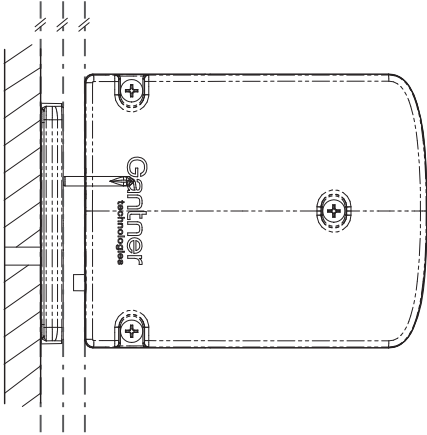10. Label carrier

Cut-outs in the locker door

Cut-outs must be made in the inside and outside walls of the locker door to mount the GAT NET.Lock Bolt Set 7200 and label carrier. The installation procedure is described on the next page. The measurements for the cut-outs are shown in the diagram below.

Valid from June 10th, 2015 • Technical data subject to modification without notice!
DB_GAT-ECOSide-Lock7000--EN_11.indd • Part No. 642832
4
www.gantner.com

Installation requirements for GAT ECO.Side Lock 7000 and bolt set

Please pay particular attention to the following points:

- The thickness of the locker door must be between 18 and 26 mm (0.71˝ and 1.02˝).
- When the locker door is pressed shut, ensure there is no gap between the bolt set (2) and the front of the GAT ECO.Side Lock 7000. Ideally the bolt set should touch the front of the lock.
- The front side of the bolt set and the GAT ECO.Side Lock 7000 must be aligned parallel to each other.

Installation procedure

Note: Before installing all locks in a new locker system, a test installation of at least one lock and a final function check must be performed. Only once the functional testing is successfully completed may the remaining locks be installed in the same way.

1. Drill 3 holes (3) for the GAT ECO.Side Lock 7000 into the locker wall.
2. Insert the batteries into the GAT ECO.Side Lock 7000 (see page 7).
3. Mount the GAT ECO.Side Lock 7000 with 3 screws (3) on the inside locker wall.

    Attention: Use the correct screws according to the type of locker material, max. Ø 4 mm (0.16˝). The maximum allowed tightening torque of the screws is 2 Nm (1.47 lb-ft).

4. Cut-out a section, 62.6 mm x 68 mm (2.46˝ x 2.68˝), in the inner wall of the locker door for the GAT NET.Lock Bolt Set 7200.
5. Drill 4 holes (6) in the inner wall of the locker door for mounting the GAT NET.Lock Bolt Set 7200.
6. Cut-out a section, 67.6 mm x 93.6 mm (2.66˝ x 3.68˝), in the outer wall of the locker door for the label carrier.
7. Mount the bolt set onto the inside wall of the locker door using 4 screws.

    Attention: Use pan-head metal screws, Ø 3.5 mm (0.14˝), screw length depends on locker door thickness. The maximum tightening torque of the screws is 2 Nm (1.47 lb-ft).

8. Push the label carrier onto the outside wall of the locker door. The label carrier will hold in place with the lashes on the label carrier. To protect against manipulation, a screw can be used to fix the bolt set to the label carrier.

    Attention: Use a countersunk screw, Ø 2.9 mm (0.11˝). Screw length depends on locker door thickness, e.g., a 15 mm (0.59˝) thick door requires a 19 mm (0.75˝) long screw.

9. Attach the front label (11) onto the label carrier.

    Attention: If a custom label design is used, ensure that a transparent field for the status LED (7) is included in the label design.

10. Test the locker door to confirm that it can close easily and the door shackle inserts correctly into the GAT ECO.Side Lock 7000.
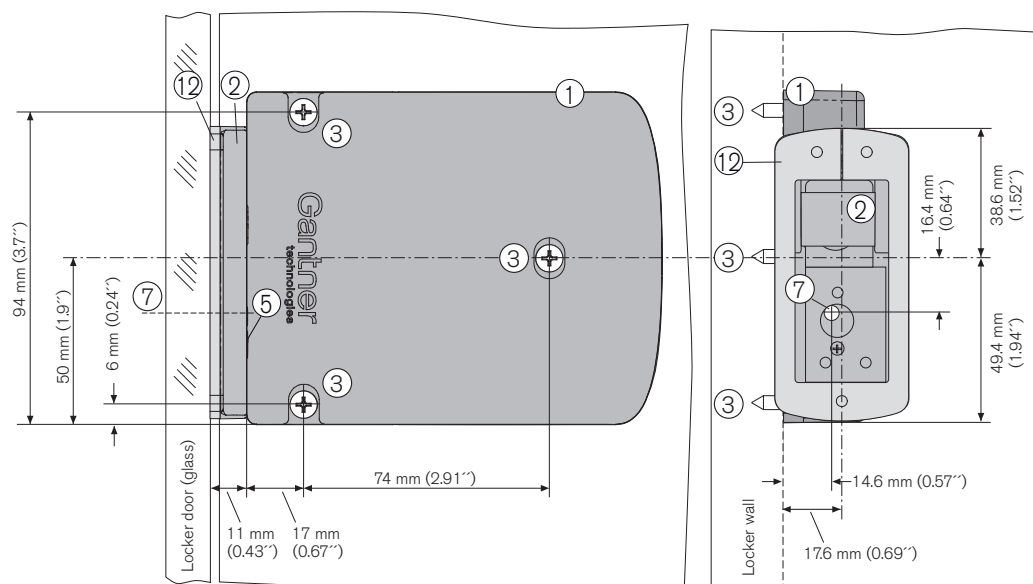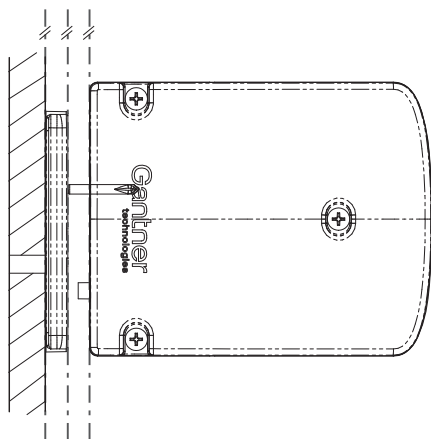
1. GAT ECO.Side Lock 7000
2. GAT NET.Lock Bolt Set 7300
3. 3 x mounting screws for the GAT ECO.Side Lock 7000
5. Door contact
7. LED position
12. Metal support for glass door (included in the GAT NET.Lock BoltSet 7300)

Installation requirements for GAT ECO.Side Lock 7000 and bolt set

Please pay particular attention to the following points:

- When the locker door is pressed shut, ensure there is no gap between the bolt set (2) and the front of the GAT ECO.Side Lock 7000. Ideally the bolt set should touch the front of the lock.
- The front side of the bolt set and the GAT ECO.Side Lock 7000 must be aligned parallel to each other.

Installation procedure

Note: Before installing all locks in a new locker system, a test installation of at least one lock and a final function check must be performed. Only once the functional testing is successfully completed may the remaining locks be installed in the same way.

1. Drill 3 holes (3) for the GAT ECO.Side Lock 7000 into the locker wall.
2. Insert the batteries into the GAT ECO.Side Lock 7000 (see page 7).
3. Mount the GAT ECO.Side Lock 7000 with 3 screws (3) on the inside locker wall.

    Attention: Use the correct screws according to the type of locker material, max. Ø 4 mm (0.16″). The maximum allowed tightening torque of the screws is 2 Nm (1.47 lb-ft).

4. Use adhesive to attach the GAT NET.Lock BoltSet 7300 in the correct position to the inside of the locker door. Ensure the bolt set and metal support are screwed together before applying adhesive. GANTNER Electronic GmbH has successfully tested the following adhesives:

    For transparent glass doors:

    Conloc UV 680 from EGO. Only suitable for transparent glass doors without color-coating as this adhesive requires exposure to UV light (i.e., daylight) to cure.

    For non-transparent glass doors:

    Conloc UV 683 and Conloc Aktivator 953 from EGO. This combination does not require UV light to cure and is also suitable for opaque glass doors (e.g., with painted or color-coated tint treatment).
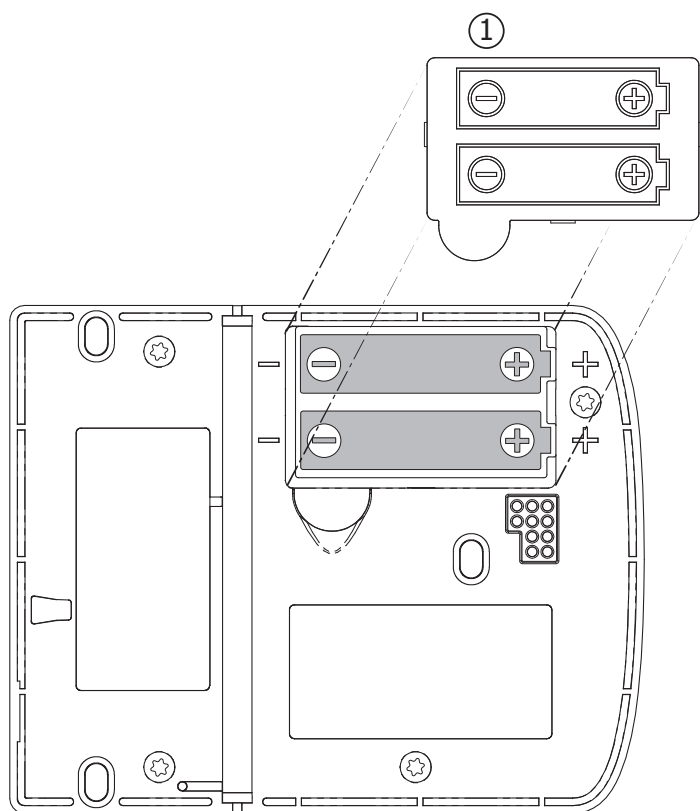
    Attention: If comparable adhesives are to be used, test to ensure the adhesive meets the strength requirements. Always follow the adhesive manufacturer's instructions.

5. A label (GANTNER standard design or custom design) can be attached to the locker front. If a custom label design is used, ensure that a transparent field for the LED light is included in the label design.

6. Test the locker door to confirm that it can close easily and the door shackle inserts correctly into the GAT ECO.Side Lock 7000.

www.gantner.com

Set-up and configuration

Power supply

The unit is powered by two 3.6 V AA Lithium SAFT - LS14500 batteries (see technical data). In order to access the battery compartment of the GAT ECO.Side Lock 7000, the red battery cover (1 in diagram below) on the underside of the housing must be removed.

Configuration

The configuration settings of the GAT ECO.Side Lock 7000 can be adjusted using a PC/laptop and GAT Config Manager configuration software.

A Micro-B USB port is provided on the side of the GAT ECO.Side Lock 7000 for computer connectivity.

1. Connect the USB cable to the GAT ECO.Side Lock 7000 (1).
2. Connect the other end of the USB cable to the USB port of a PC/laptop
3. Hold the service data carrier next to the reading field to activate configuration mode (2).
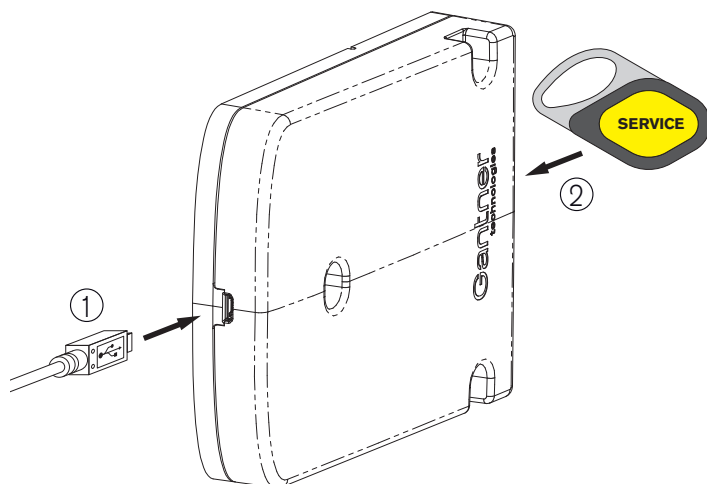
The USB cable, service data carrier and configuration software are included in the GAT ECO.Side Lock Basic Set F/ISO (Part No. 812528).

A detailed description of the configuration settings and how to configure the GAT ECO.Side Lock 7000 can be found in the manual.

Inserting the battery:

1. Ensure battery polarity is the same as shown in the diagram above.
2. Press the battery down into the compartment until it locks into place.
3. Reinstall the battery cover over the battery compartment and push down until the battery cover is level with the surrounding GAT ECO.Side Lock 7000 housing.

⚠ Insert the batteries directly before the GAT ECO.Side Lock 7000 is mounted to avoid unnecessary battery usage.

⚠ Only use the approved battery listed in the "Accessories" section on page 1 (2 x Batterie 3,6V Lithium SAFT - LS14500, Part No. 912012).

The WEEE symbol on GANTNER products and their packaging indicates that the corresponding material must not be disposed of with normal household waste. Instead such marked waste equipment must be disposed of by handing it over to a designated electronic waste recycling facility. Separating and recycling this waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. Please contact your local authority for further details of your nearest electronic waste recycling facility.

Safety instructions

⚠ - This device must be installed by qualified personnel only.
- The applicable safety and accident prevention regulations must be observed.
- Safety devices must not be removed.
⚡ - Please observe the technical data of the device specified on the data sheet.

www.gantner.com

Valid from June 10th, 2015 • Technical data subject to modification without notice!
DB_GAT-ECOSide-Lock7000--EN_11.indd • Part No. 642832

7