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

Gantner

Application

The GAT ECO.Side Lock 7000 F/ISO is the ideal solution for the convenient electronic locking of lockers in leisure facilities, universities, companies and depots. System users are identified by the lock via contactless RFID data carriers (Radio Frequency Identification) and NFC technology. Different types of data carrier media such as cards, wristbands and key tags are available.

The GAT ECO.Side Lock 7000 F/ISO is suitable for a variety of locker types (wood, HPL, solid plastic, glass, and also steel sheet) and can be used with both left and right-hinged doors.

Due to its mechanical compatibility with the GAT NET.Lock 7000 series, existing locker rooms can be effortlessly fitted out using the GAT ECO. Side Lock 7000 F/ISO.

GAT NET.Lock BoltSet 7100

GAT ECO.Side Lock 7000 F/ISO

Functional description

With the GAT ECO.Side Lock 7000 F/ISO, lockers and depot boxes can be electronically locked and unlocked. The user simply presses the locker door shut and holds their data carrier next to the RFID reading center on the locker door. Depending on the authorization, the locker door is then locked or unlocked accordingly by the GAT ECO.Side Lock 7000 F/ISO.

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

The configuration (e.g., operating mode) of the GAT ECO.Side Lock 7000 F/ISO can be done on-site via USB interface or using the programming data carrier.

Highlights

- Maintenance-free "Low-Power Technology"
- Free locker mode selection
- Configurable operating mode
- Automatic unlocking functionality
- Pre-locking for personal lockers without data carrier
- 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 mechanism guarantees exceptional reliability
- Locking status indicated via LED and beeper
- Configuration via PC/laptop (USB connection) or programming data carrier
- Vandal-proof installation
- Integrated break-in alarm

Accessories

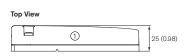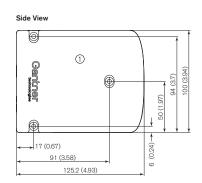| Description	Part No.
Manual GAT ECO.Side Lock 7000 F/ISO Operating and installation instructions in English	932329
GAT NET.Lock BoltSet 7100 Door shackle carrier and booster for non-metallic doors	369535
GAT NET.Lock BoltSet 7200 Door shackle carrier and booster for metallic doors	532123
GAT NET.Lock BoltSet 7300 Door shackle carrier and booster for glass doors (adhesive not included)	774232
Batterie 3,6V Lithium SL-860/S Battery for the GAT ECO.Side Lock 7000 F/ISO	914430
BG GAT ECO.ILTE 3V6 AA HLC module for GAT ECO.Side Lock 7000 instead of second battery	1100226
GAT ECO.Basic Set F/ISO Package with configuration software, USB cable for PC connection, 3 master data carriers, and 4 system data carriers with special functionality	812528
GAT Key Tag 7309, S50 MASTER Master data carrier for GAT ECO.Side Lock 7000 F/ISO	816229
GAT NET.Lock Label GEA right **GAT NET.Lock Label GEA NUM right** Self-adhesive door label in GANTNER design, for right-hinged doors, with or without locker number	679034 679236
GAT NET.Lock Label GEA left **GAT NET.Lock Label GEA NUM left** Self-adhesive door label in GANTNER design, for left-hinged doors, with or without locker number	370022 679135

Order information

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

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Valid as of 9th May 2019 • Technical data subject to modification without notice!
DB_GAT-ECOSide-Lock7000-FISO--EN_17.indd • Part No. 642832

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Technical data

Power supply:	1 x 3.6 V lithium battery, size AA EU: Tadiran SL-860/S (Part No. 914430) US: Tadiran TL-4903/S and additionally: 1 x ILTE module (Part No. 1100226)	Reading field range:	5 to 35 mm (0.2´´ to 1.38´´) (depending on installation conditions and data carrier)
Battery lifetime:	Up to 10 years at +20 °C (68 °F) (depending on use frequency and used functions)	Reading field frequency:	13.56 MHz
		Break-in resistance capability:	DIN 4547-2 class C
Data storage:	EEPROM for 150 bookings, data preservation during battery change	Housing material:	Plastic (PC), halogen-free, V0
		Housing color:	Dark gray
Internal clock:	Quartz-controlled, real-time clock	Dimensions:	125.2 mm x 100 mm x 25 mm (4.93´´ x 3.94´´ x 0.98´´)
Configuration interface:	USB 2.0, Micro-B	Weight:	Approx. 400 g (14.1 oz)
Display element:	LED (red/green)	Permitted ambient temperature:	-10 °C to +55 °C (14 °F to 131 °F)
Reader type:	- MIFARE®, supported types: Classic (1k and 4k), Ultralight® DESFire EV1® and EV2® (It is recommended to have customer specific data carriers approved by GANTNER before use) - ISO 15693	Protection type:	IP 52
		Protection class:	III
		Environment class based on VdS 2110:	II (conditions in indoor areas)
		Compliance:	CE

Dimensions

GAT ECO.Side Lock 7000 F/ISO

Top View

Side View

25 (0.98)

94 (3.7) 100 (3.94) 50 (1.97) 6 (0.24)

17 (0.67) 91 (3.58) 125.2 (4.93)

GAT NET.Lock BoltSet 7100

Top View

Side View   **Front View**

88.1 (3.47)

8 (0.31) 31.3 (1.23)

GAT NET.Lock BoltSet 7300

Top View

Side View   **Front View**

88.1 (3.47)

3 (0.12) 8 (0.31) 40.3 (1.58)

GAT NET.Lock BoltSet 7200

Top View

Side View   **Front View**   **Front View Label Carrier**

89.1 (3.51) 104 (4.1)

5.8 (0.23) 10 (0.39) 62.3 (2.45) 78 (3.07)

Dimensions in mm (inches in brackets)

1. GAT ECO.Side Lock 7000 F/ISO
2. Door shackle
3. Door contact
4. Hole for status LED
5. Metal support for glass door attachment
6. Label carrier

Typical application

Row of lockers

Bolt set (inside the locker door)

Front label

GAT ECO.Side Lock 7000 F/ISO

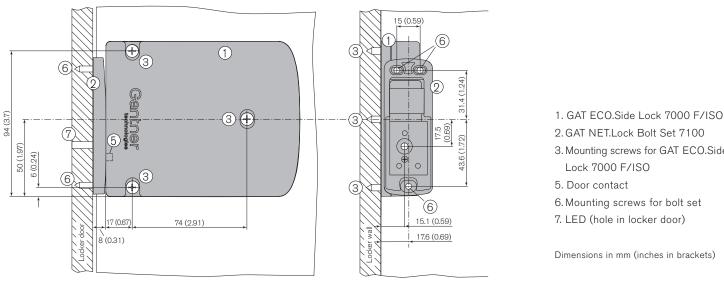Data carrier

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Installation instructions

The GAT ECO.Side Lock 7000 F/ISO (1) is installed on the inner locker wall using 3 screws (3). The bolt set (2) 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 cutout 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 F/ISO needs min. 10 mm clearance from the bottom or top of the locker to allow the hole marking gauge to be used for installation. A detailed description of the marking gauge is available in the GAT ECO.Side Lock 7000 F/ISO manual.

Door status contact

The GAT ECO.Side Lock 7000 F/ISO has a contact that is activated or deactivated by the door contact (5) 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 F/ISO.
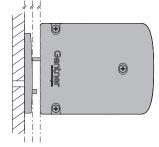
Door width

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.

Installation in lockers with non-metallic doors

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

Dimensions in mm (inches in brackets)

Installation requirements

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 F/ISO. 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 F/ISO must be aligned parallel to each other.
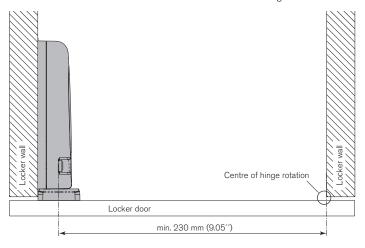
Installation procedure

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 F/ISO into the inner locker wall.
2. Insert the battery and the ILTE module into the battery compartment (observe polarity - see page 7).
3. Mount the GAT ECO.Side Lock 7000 F/ISO with three screws (3) onto the inner locker wall.
   NOTE! 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.
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.
   NOTE! 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 design or custom design) can be attached to the locker front. If a custom label is used, ensure that a transparent field for the LED is included in the design.
8. Test the locker door to confirm that it closes easily and the door shackle inserts correctly into the GAT ECO.Side Lock 7000 F/ISO.
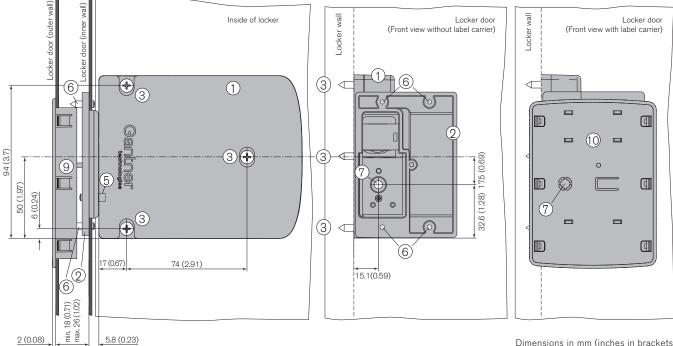9. Open the locker door. The door must spring open without assistance after it is unlocked.

NOTE! Also observe the information in the GAT ECO.Side Lock 7000 F/ISO manual.

Installation in lockers with metallic doors

Dimensions in mm (inches in brackets)

1. GAT ECO.Side Lock 7000 F/ISO
2. GAT NET.Lock Bolt Set 7200
3. Mounting screws for GAT ECO.Side Lock 7000 F/ISO
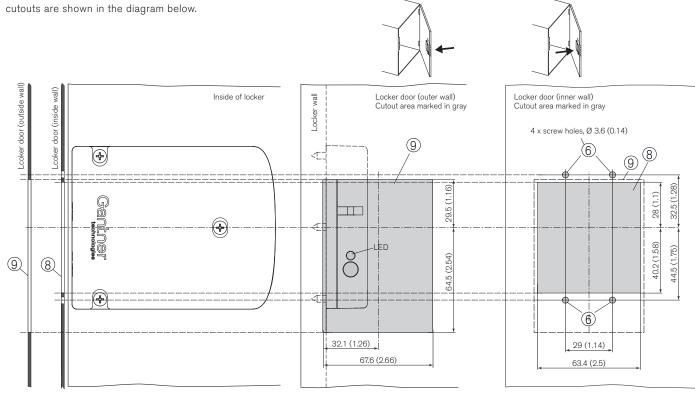5. Door contact
6. Mounting screws for bolt set

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

Cutouts in the locker door

Cutouts must be made in the inner and outer 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 cutouts are shown in the diagram below.
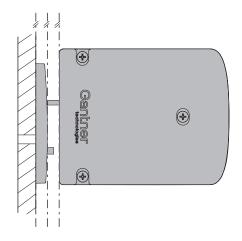

Dimensions in mm (inches in brackets)

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Installation requirements

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 F/ISO. 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 F/ISO must be aligned parallel to each other.

Installation procedure

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 F/ISO into the inner locker wall.
2. Insert the battery and the ILTE module into the battery compartment (observe polarity - see page 7).
3. Mount the GAT ECO.Side Lock 7000 F/ISO with 3 screws (3) onto the inner locker wall.
   NOTE! 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.
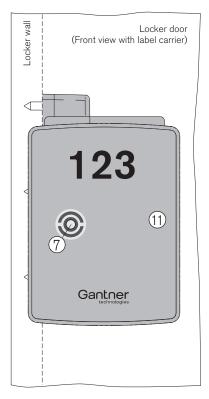   **NOTE!** Use pan-head metal screws, Ø 3.5 mm (0.14˝), screw length depends on locker door thickness. The maximum tightening torque of the screws is 2 Nm (1.47 lb-ft).
8. Push the label carrier onto the outside wall of the locker door. The label carrier will hold in place with the lashes on the label carrier. To protect against manipulation, a screw can be used to fix the bolt set to the label carrier.
   NOTE! 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.

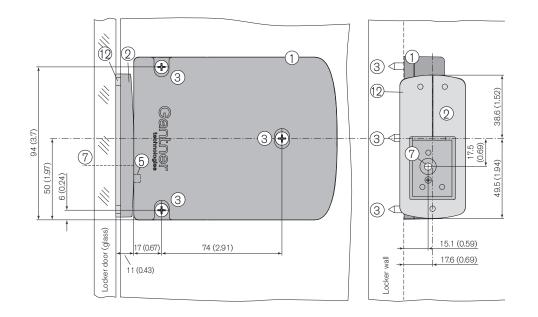9. Attach the front label (11) onto the label carrier.
   NOTE! If a custom label design is used, ensure that a transparent field for the status LED (7) is included in the design.

10. Test the locker door to confirm that it closes easily and the door shackle inserts correctly into the GAT ECO.Side Lock 7000 F/ISO.
11. Open the locker door. The door must spring open without assistance after it is unlocked.

NOTE! Also observe the information in the GAT ECO.Side Lock 7000 F/ISO manual.

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1. GAT ECO.Side Lock 7000 F/ISO
2. GAT NET.Lock Bolt Set 7300
3. Mounting screws for the GAT ECO.Side Lock 7000 F/ISO
5. Door contact
7. LED position
12. Metal support for glass door (included in the GAT NET.Lock BoltSet 7300)

Dimensions in mm (inches in brackets)

Installation requirements

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 F/ISO. 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 F/ISO must be aligned parallel to each other.

Installation procedure

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 F/ISO into the inner locker wall.
2. Insert the battery and the ILTE module into the battery compartment (observe polarity - see page 7).
3. Mount the GAT ECO.Side Lock 7000 F/ISO with 3 screws (3) onto the inner locker wall.
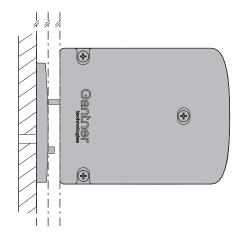   **NOTE!** Use the correct screws according to the type of locker material, max. Ø 4 mm (0.16´´). The maximum allowed tightening torque of the screws is 2 Nm (1.47 lb-ft).
4. Use glass adhesive to attach the GAT NET.Lock BoltSet 7300 in the correct position to the inside of the locker door. Ensure the bolt set and metal support are screwed together before applying adhesive.
   NOTE! Before installation, test to ensure that the adhesive meets the strength requirements. Always follow the adhesive manufacturer's instructions.
5. A label (GANTNER design or custom design) can be attached to the locker front. If a custom label is used, ensure that a transparent field for the LED is included in the design.
6. Test the locker door to confirm that it closes easily and the door shackle inserts correctly into the GAT ECO.Side Lock 7000 F/ISO.
7. Open the locker door. The door must spring open without assistance after it is unlocked.

NOTE! Also observe the information in the GAT ECO.Side Lock 7000 F/ISO manual.
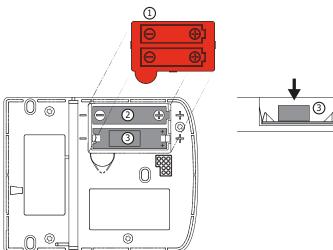
Startup and configuration

Power supply

The unit is powered by a 3.6 V AA lithium battery (see technical data). In addition, the ILTE module must also be inserted into the battery compartment.

NOTE!
- To avoid unnecessary battery usage, insert the battery (2) and the ILTE module (3) directly before the GAT ECO.Side Lock 7000 F/ISO is installed.
- Always use the GANTNER approved battery (3.6V lithium Tadiran SL-860/S, Part No. 914430) to power the GAT ECO.Side Lock 7000 F/ISO.
- Operating the lock using the ILTE module only is not permitted!

Inserting the battery and the ILTE module:
1. Open the battery compartment by removing the red battery compartment cover (1) on the underside of the housing (lift the tab).
2. Ensure that the polarity of battery (2) and the ILTE module (3) are the same as shown in the diagram.
3. Insert the battery into the compartment until it locks into place.
4. Insert the ILTE module (HLC up) all the way down into the battery compartment until it clicks into place.

NOTE! It does not matter in which compartment the battery and the ILTE module are inserted.

5. 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 F/ISO housing.

NOTE! After inserting the battery and the ILTE module, a battery initialization is performed that takes between 1 and 2 minutes to complete. This process cannot be interrupted and the lock cannot be configured during this time.

 Always dispose of empty batteries in an environmentally friendly way, e.g., at an electronic waste recycling facility.

Safety Instructions

- The installation and maintenance of this device must be performed by trained, qualified personnel.
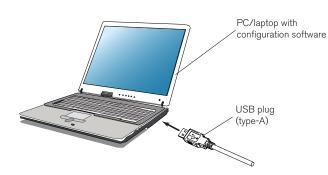- All applicable safety and accident prevention regulations must be observed.
- Safety devices must not be removed.
- Please observe the technical data of the device specified in this datasheet.

- The device must be disconnected from the power supply prior to installation, assembly or dismantling.
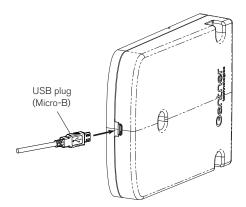

Configuration

The settings of the GAT ECO.Side Lock 7000 F/ISO can be configured via a PC/laptop and GAT Config Manager configuration software or via a configuration data carrier.

A Micro-B USB port is provided on the side of the GAT ECO.Side Lock 7000 F/ISO for computer connectivity. Complete the following steps to configure the lock via PC/laptop.
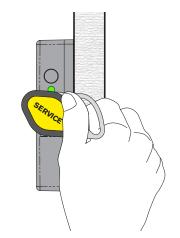
1. Start GAT Config Manager on the PC/laptop.
2. Plug the USB cable (type-A end) into a spare USB port on the PC/laptop.

PC/laptop with configuration software

USB plug (type-A)

3. Plug the Micro-B connector of the USB cable into the USB port on the GAT ECO.Side Lock 7000 F/ISO.

USB plug (Micro-B)

4. Hold the service data carrier next to the reading field to activate configuration mode.

5. Click on "Configure" in GAT Config Manager to open the settings. A detailed description of the configuration settings and process is available in the GAT ECO.Side Lock 7000 F/ISO manual.

The service data carrier, USB cable, and configuration software are included in the GAT ECO.Basic Set F/ISO (Part No. 812528).

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