GAT NET.Lock 7000
Electronic RFID Locker Lock

Application

The GAT NET.Lock 7000 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.

The GAT NET.Lock 7000 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. A range of operating modes provide flexibility and allow the locks to be configured to suit specific system requirements.

GAT NET.Lock 7000

Functional description

The GAT NET.Lock 7000 electronic locks connect to the GAT NET.Controller S 7000 slave controllers (up to 24 locks per slave controller).

In order to use a locker, the user presses the locker door shut and holds their data carrier next to the RFID reading center on the locker door. The locking and usage status of the lock is indicated by an integrated LED.

Highlights

- Up to 24 GAT NET.Lock 7000 per GAT NET.Controller S 7000
- Up to 12 GAT NET.Lock 7000 per GAT NET.Controller S 7000 Light
- Different operating modes available
- Reliable data transmission between RFID reader and data carrier
- Suitable for left and right-hinged doors and all types of locker material
- Automatic calibration of the RFID antenna
- LED status indicator (multi-colour)
- Motor driven locking/unlocking ensures exceptional reliability
- Different bolt sets available with integrated RFID booster
- Simple and secure bolt set installation
- Label carrier for metallic doors (customized label designs possible)

Order information

Description	Part No.
GAT NET.Lock 7000 Electronic RFID locker lock	368534

Accessories

Description	Part No.
GAT NET.Lock Basic Set F	369232
GAT NET.Lock Basic Set ISO The sets include master cards	369333
GAT NET.Lock Tool 7000 Centre punch gauge for bolt mounting	533831

Accessories

Description	Part No.
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	774232
GAT NET.Controller M 7000	253224
GAT NET.Controller M 7000 Light Master controller for the GAT NET.Controller S 7000 slave controller. The GAT NET.Controller M 7000 Light can control max. 3 slave controllers.	978541
GAT NET.Controller S 7000 F/ISO	253426
GAT NET.Controller S 7000 F/ISO Light	429730
GAT NET.Controller S 7000 ICLS Slave controller for the GAT NET.Lock 7000 to suit different RFID technologies: F/ISO: MIFARE®/ISO 15693, ICLS: iCLASS®. GAT NET. Controller S 7000 F/ISO Light for up to 12 GAT NET.Lock 7000 locks.	768538
GAT NET.Lock Cable 5m Connection cable for the GAT NET.Lock 7000, 5 m length, 4-pin plug on both ends	734430
GAT NET.Lock Cable Extension 3m Extension cable for the GAT NET.Lock 7000, 3 m length	810021
GAT NET.Lock Label GEA rechts	679034
GAT NET.Lock Label GEA NUM rechts Self-adhesive door label in GANTNER design, for right-hinged doors, with or without locker number	679236
GAT NET.Lock Label GEA links	370022
GAT NET.Lock Label GEA NUM links Self-adhesive door label in GANTNER design, for left-hinged doors, with or without locker number	679135

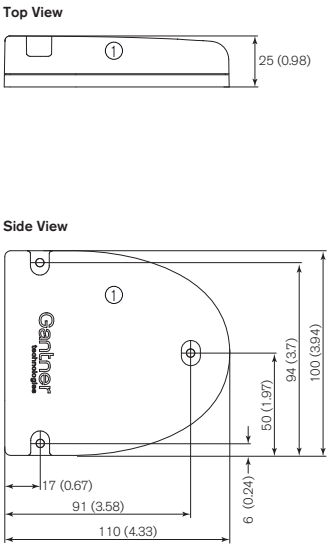
Technical data

Nominal voltage Udc:	5 V
Power supply:	Via connection cable from the slave controller
Aver. power consumption:	60 mW
Reader types:	
GAT NET.Controller S 7000	
- F/ISO:	MIFARE® + ISO 15693
- ICLS:	iCLASS®
Retaining force:	Min. 1,500 N (337.2 lb)
Max. locks per slave controller:	24 (GAT NET.Controller S 7000) 12 (GAT NET.Controller S 7000 Light)
User guidance:	Multi-colored status LED
Connectors:	MOLEX, type Micro-Fit 3.0™

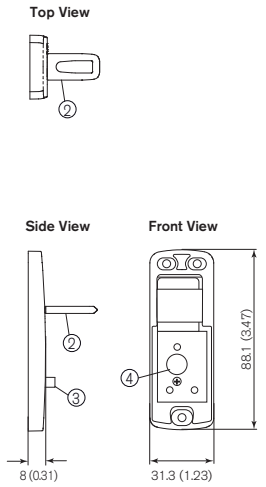
Interface:	One-Wire (special cable for power supply, data and RF signal)
Housing material:	Plastic (PC)
Door width:	min. 230 mm (9.05˝)
Dimensions:	110 mm x 100 mm x 25 mm (4.33˝ x 3.94˝ x 0.98˝)
Permitted ambient temperature:	0 °C to 60 °C (32 °F to 140 °F)
Protection type:	IP 52
Protection class:	III
Weight:	Approx. 160 g (5.6 oz)
Environment class based on VdS 2110:	II (conditions in indoor areas)
Compliance:	CE, FCC, IC

Dimensions

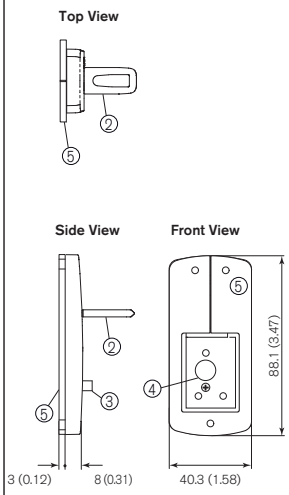
GAT NET.Lock 7000



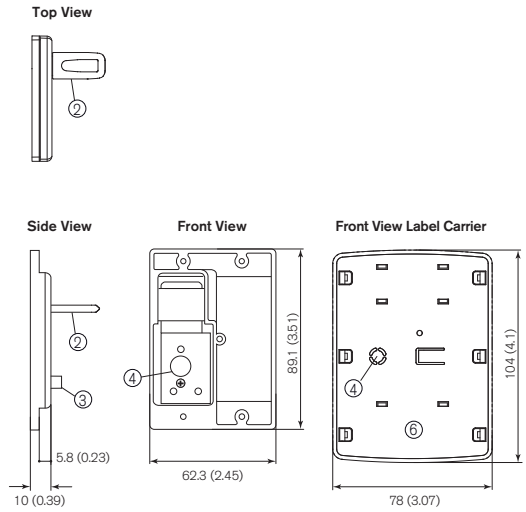
GAT NET.Lock BoltSet 7100



GAT NET.Lock BoltSet 7300



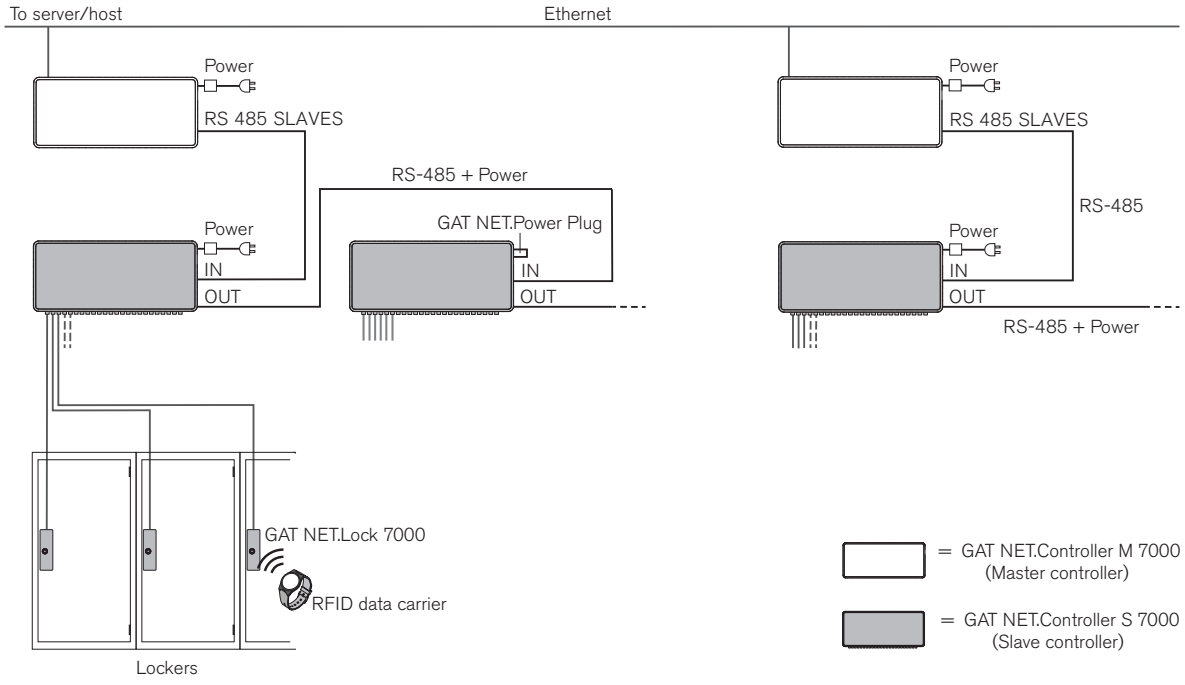
GAT NET.Lock BoltSet 7200



Dimensions in mm (inches in brackets)

1. GAT NET.Lock 7000
2. Door shackle
3. Door contact
4. Hole for status LED
5. Metal support (for glass doors)
6. Label carrier

Typical application



Installation instructions

The GAT NET.Lock 7000 (1) is mounted to the inside of the 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 cut-out must be made in the locker door to accommodate the bolt set and label carrier. For glass doors, the bolt set is combined with a metal support and attached to the locker door using adhesive.

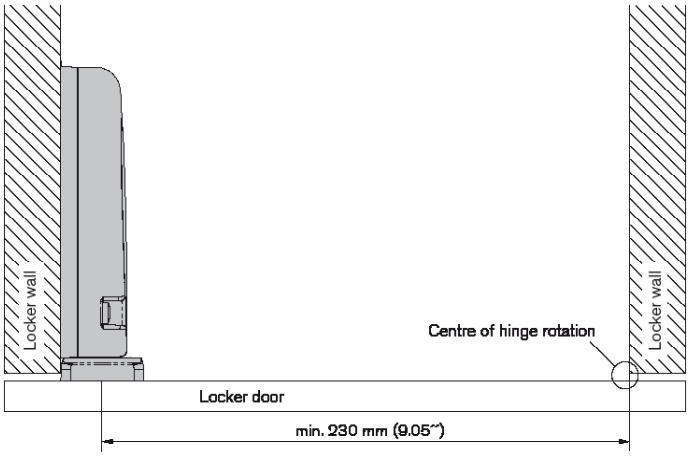
NOTE! The GAT NET.Lock 7000 needs min. 10 mm clearance from the bottom or top of the locker to allow the hole marking gauge to be used for installation. A detailled description of the hole marking gauge can be found in the GAT NET.Lock 7000 manual.

Door status contact

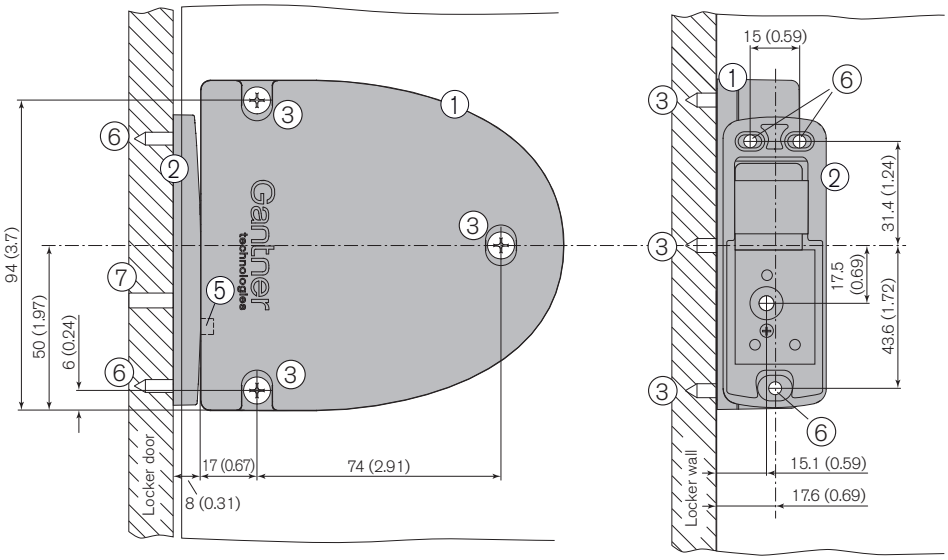
The GAT NET.Lock 7000 has a contact that is activated or deactivated by the door contact (5) on the bolt set when the locker door is closed or opened respectively. This function determines the open/close state of the door. It is important that this contact remains clean and undamaged to ensure the correct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

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



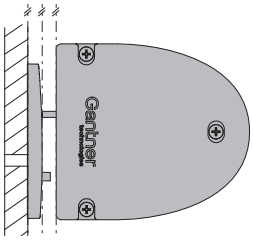
1. GAT NET.Lock 7000
2. GAT NET.Lock Bolt Set 7100
3. Mounting screws for GAT NET.Lock 7000
5. Door contact
6. Mounting screws for bolt set
7. LED (hole in locker door)

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 NET.Lock 7000. Ideally the bolt set should touch the front of the lock.
- The front side of the bolt set and the GAT NET.Lock 7000 must be aligned parallel to each other.



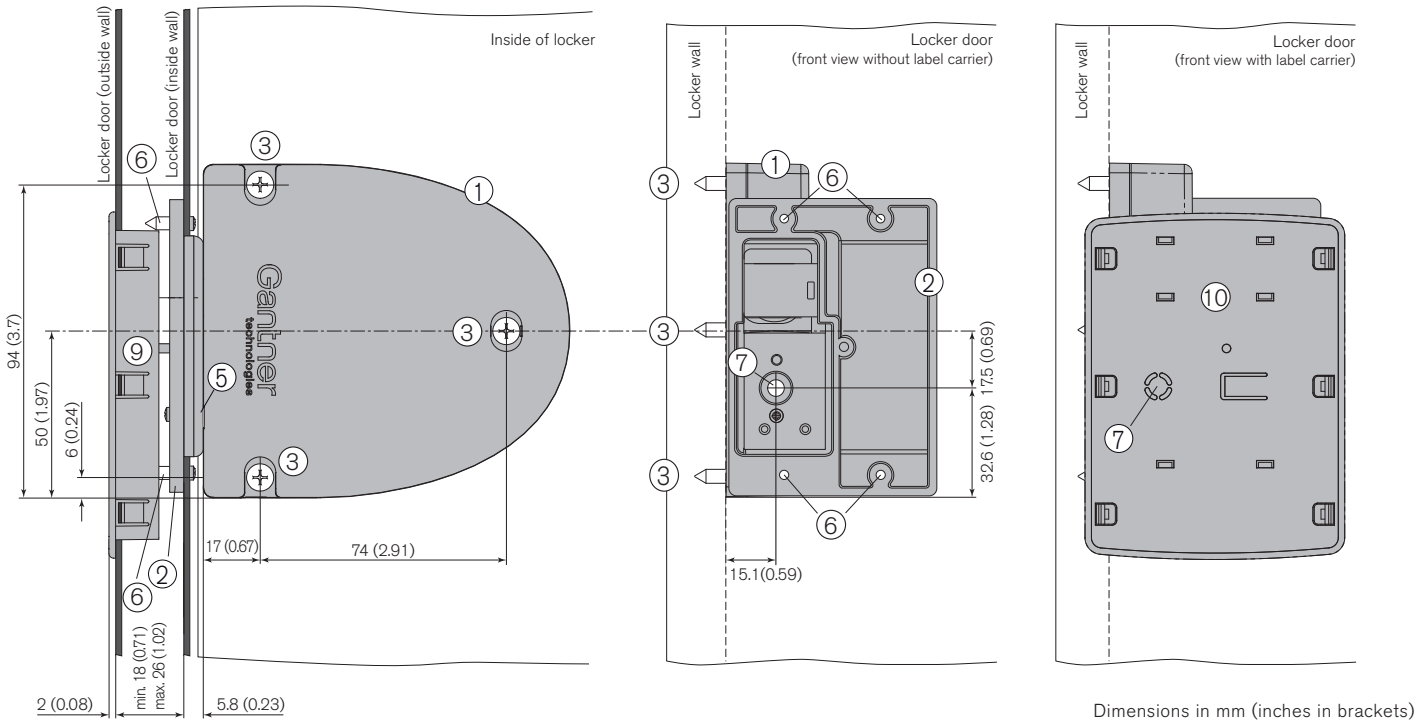
Installation procedure

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 NET.Lock 7000 into the locker wall.
2. Plug-in the connection cable and loop cable (for reserve) in the underside of the housing (see “Electrical connections” on page 7).
3. Mount the GAT NET.Lock 7000 with three screws (3) on the inside 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. 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 diameter is 10 mm (0.39´´).
6. Attach the bolt set to 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 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 NET.Lock 7000.
9. The locker door must spring open after unlocking.

NOTE! Also observe the instructions in the GAT NET.Lock 7000 manual.

Installation in lockers with metallic doors

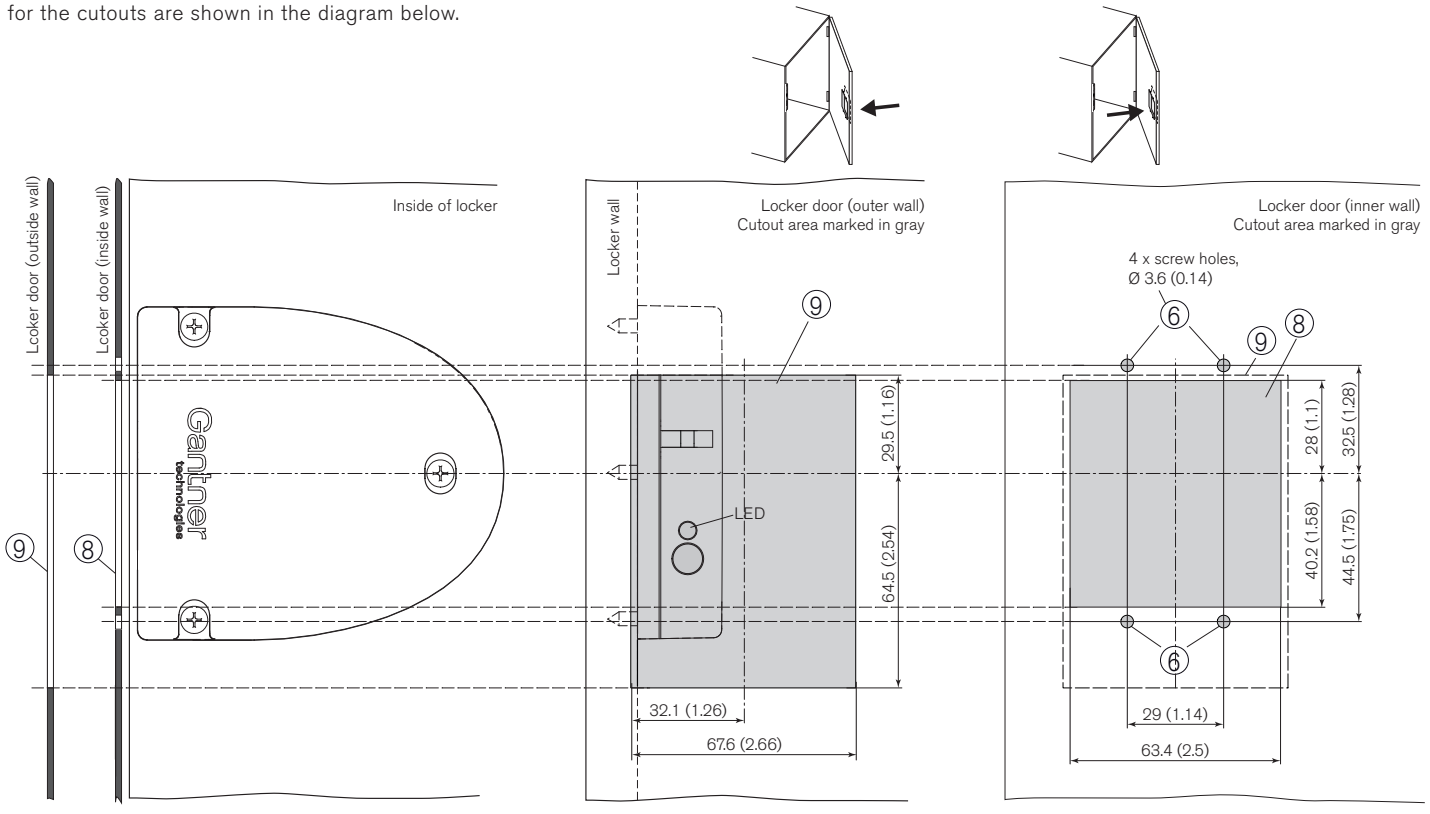


Dimensions in mm (inches in brackets)

1. GAT NET.Lock 7000
2. GAT NET.Lock Bolt Set 7200
3. Mounting screws for GAT NET.Lock 7000
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 inside and outside walls of the locker door in order 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.

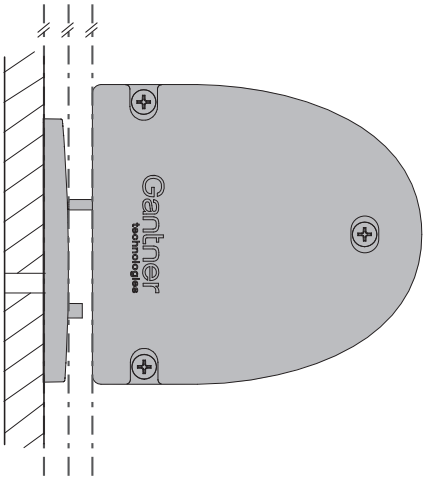


Dimensions in mm (inches in brackets)

Installation requirements

Please pay particular attention to the following points:

- The thickness of the locker door must be between 18 mm 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 NET.Lock 7000. Ideally the bolt set should touch the front of the lock.
- The front side of the bolt set and the GAT NET.Lock 7000 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.

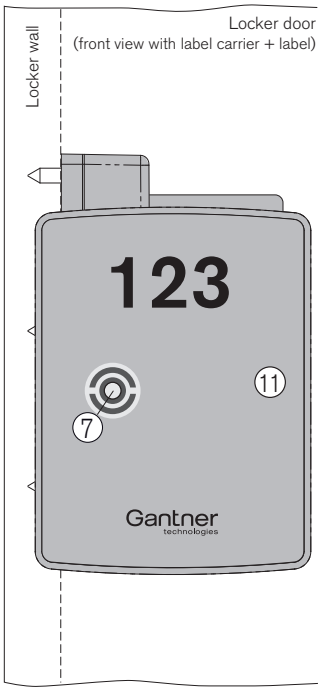
1. Drill 3 holes (3) for the GAT NET.Lock 7000 into the locker wall.
2. Plug the connection cable in and loop cable (for reserve) in the underside of the housing (see “Electrical connections” on page 7).
3. Mount the GAT NET.Lock 7000 with 3 screws (3) onto the inside locker wall.

   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 (8), 63.4 mm x 68.2 mm (2.5´´ x 2.69´´), 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 (9), 67.6 mm x 94 mm (2.66´´ x 3.7´´), 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 metal 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.

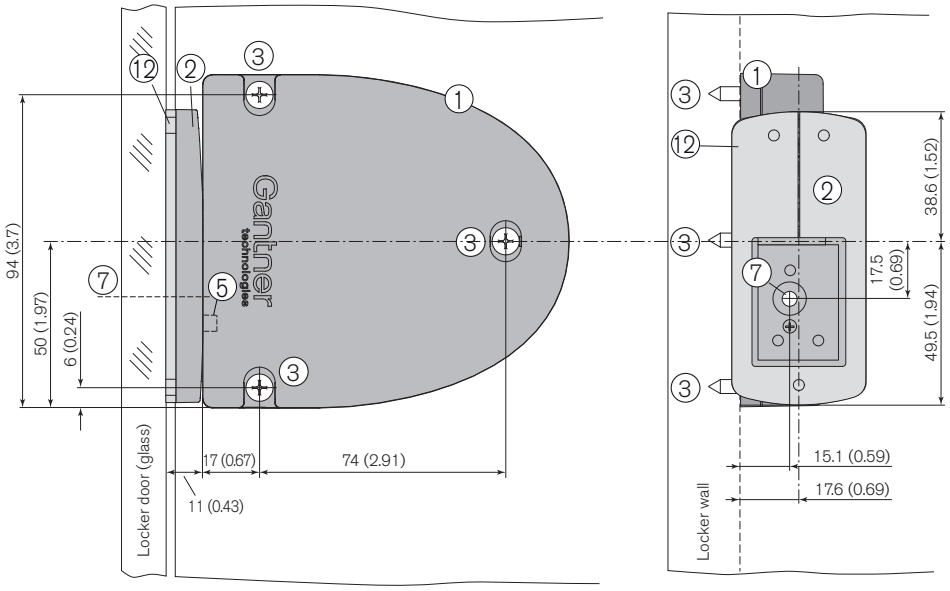
   NOTE! The front label can be ordered with a standard GANTNER or customized design. For customized labels, ensure that a transparent field for the status LED (7) is included in the label design.



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

NOTE! Also observe the instructions in the GAT NET.Lock 7000 manual.

Installation in lockers with glass doors



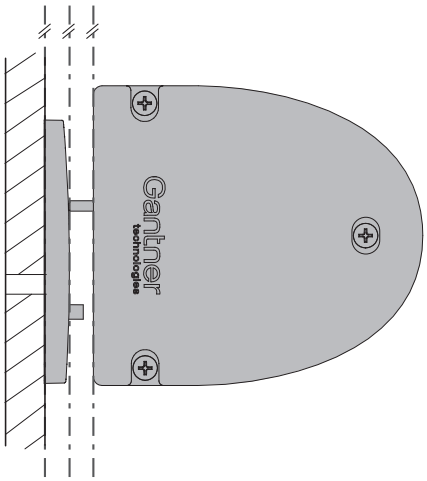
1. GAT NET.Lock 7000
2. GAT NET.Lock Bolt Set 7300
3. 3 x mounting screws for the GAT NET. Lock 7000
5. Door contact
7. LED position
12. Metal support for glass door (included in the GAT NET.Lock BoltSet 7300)

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 NET.Lock 7000. Ideally the bolt set should touch the front of the lock.
- The front side of the bolt set and the GAT NET.Lock 7000 must be aligned parallel to each other.



NOTE! Also observe the instructions in the GAT NET.Lock 7000 manual.

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 NET.Lock 7000 into the locker wall.
2. Plug-in the connection cable and loop cable (for reserve) in the underside of the housing (see “Electrical connections” on page 7).
3. Mount the GAT NET.Lock 7000 with 3 screws (3) on the inside 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 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 NET.Lock 7000.

Valid from May 3rd, 2017 • Technical data subject to modification without notice.
DB_GAT-NET-Lock7000--US_26.indd • Part No.: 930226

Electrical connections

Power supply and signal lines

DC power supply (see technical data) required for the RFID reading field and to power locking actions.

Antenna calibration

The GAT NET.Lock 7000 automatically calibrates its integrated RFID antenna to optimise the reading field. A detailed description of this feature is available in the GAT NET.Lock 7000 manual.

Configuration

Configuration of the GAT NET.Lock 7000 and other associated components is completed using GAT Relaxx PC software. The configuration process is described in the GAT NET.Lock 7000 and the GAT Relaxx manuals.

Connection cable

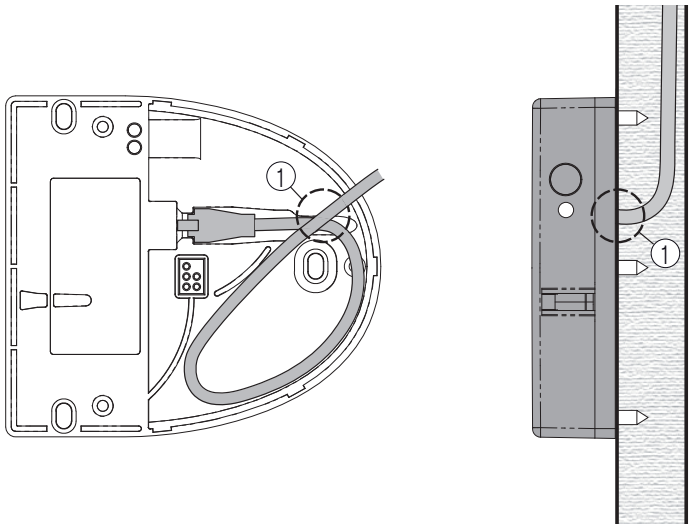
To connect the GAT NET.Lock 7000 to a GAT NET.Controller S 7000, use the GAT NET.Lock Cable 5m with 4-pin MOLEX plug on both ends. Use a GAT NET.Lock Cable Extension 3m (Part No. 810021) to extend the cable length to 8 m.

Alternatively, a 10 m cable can be made by connecting two GAT NET.Lock Cable 5 m cables together. Use a GAT NET.Lock Connector (Part No. 442123) to connect the cables.

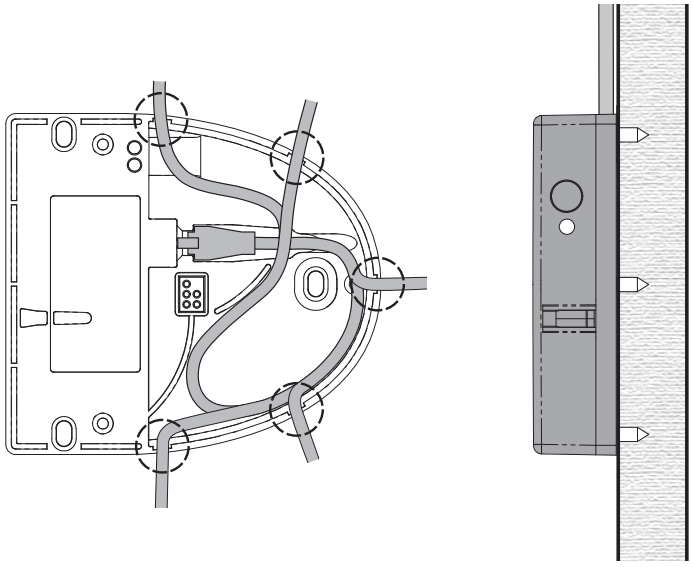
NOTE! Only use original cables from GANTNER Electronic GmbH to connect the GAT NET.Lock 7000.

Connection cable installation

The connection cable can be installed either concealed in the locker body or left unconcealed. For concealed cabling, the cable exits the locker body via a hole beneath the lock (1 in diagram below).



For unconcealed cabling, remove one of the outlets (circled in diagram below) in order to direct the cable neatly out of the GAT NET.Lock 7000 housing.



NOTE! Always leave sufficient reserve cable at the lock end (e.g., loop cable in the lock housing) for future service requirements.

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.

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.