

ACS - GT RFID BATTERY LOCKS



RFID BATTERY LOCKER LOCKS ACS-GT

USER MANUAL

Intended for ACS - GT

* Please read this manual carefully before installation and keep it for future reference.

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1. BATTERY-OPERATED LOCKER LOCKING SYSTEMS

I. GATECO.Locksimple & easy

- Push button lock
- Retrofit of coin locks
- Inside door installation
- Up to 5 years battery life time
- 3 x AA batteries (1,5V)
- Internal memory for 150 logs
- Integrated break in alarm



II. GAT ECO.Side Lock hidden inside

- Almost invisible from outside
- Inside locker installation
- Up to 10 years battery life time
- 1 x AA battery (3,6V)
- Internal memory for 150 logs
- Integrated break in alarm



III. GL7p - optional with PIN

- Outside of door installation
- Retrofit of coin locks
- Up to 10 years battery life time
- 1 x AA battery (3,6V)
- With or without PIN pad options
- Horizontal or vertical installation options
- Internal memory for 150 logs
- Integrated break in alarm



2. Product presentation

RETROFIT YOUR LOCKERS WITH ACS-GT - THE BEST BATTERY-POWERED SMART LOCKER SYSTEM.

Lost keys, permanently blocked lockers, and high administrative costs are a thing of the past.

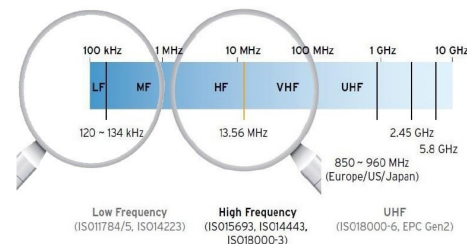
No matter the project size, battery-powered smart locker systems from GANTNER are the ideal solution for facilities that want to benefit from a secure, easily retrofitted smart locker system. Users open and close locks via an RFID data carrier or PIN code. Traditional keys become a thing of the past and administrative efforts shrink to a minimum.

PROPERTIES:

- **Easy retrofit**
 - Quickly replace coin or mechanical locks, using the existing holes.
- **Reduced costs**
 - Low maintenance and administrative efforts.
- **Durable and secure**
 - Robust, high-quality design and vandalism proof locks.
- **ANCED FUNCTIONS WITH BLE OPTIONS**
 - All battery-powered locks are also available with BLE wireless interface. These locks give you the unique advantage of having the capability to be integrated into GANTNER's locker management software, Relaxx. The **software provides information like locker status** (locked/unlocked) a **low battery warning, or even a break-in alarm** (only available for ECO.Side Lock). Through the BLE wireless interface, the battery-powered locker system becomes even easier to manage. In combination with GANTNER's new ECO LockPal app, users can operate the BLE-enabled locks even without a physical credential. The app turns personal smartphones into credentials.

3. RFID Technologies - RFID / NFC

Gantner Solutions support different technologies



© GANTNER



- LEGIC (B/BA) – Central Europe - Applications with high security requirements
- MIFARE classic (F) – Worldwide - Leisure und Fitness
- MIFARE DESFire (F) – Worldwide – Multiapplication
- ISO – Worldwide - Snowsportareas (Skiddepots)
- HID (ICLS, SEOS, Proxy) – North America / Asia - Office Environment

4. Credentials - MIFARE / ISO, LEGIC, HID

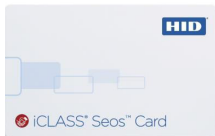
RFID data carrier - Gantner coded data carrier

- Fitness and Attraction
- Coded and printed by Gantner
- Required for Battery locks in FreeLocker mode



RFID data carrier - Customer data carrier

- Corporate and Education
- Already existing at the customer
- Re-coding possible (MIFARE)



5. GANTNER Coding - Coding, Sitekey etc.

What Technology can be coded?

- Mifare and LEGIC (only at GANTNER HQ) – HID has no coding

Why is coding important?

- Write a locker number to data carrier
- FreeLocker mode, Info Device
- Use ECO Lock Manager to assign locker
- Write locker number, expiry date, index

What is coded on the data carrier?

- Setting read/write keys to access the data carrier
- Setting the Sitekey

What is the Sitekey?

- Crypted key that is made up of the FID + the read and write key (Key A and Key B)

Must be configured in each device and credential!



5. GANTNER Coding - Coding

GAT Coding File Editor

System:
 System Type: MIFARE FID: 99999999
 Site Key: 73E0818B8DFBB35DEB9797076C922DDA534D
 Number Lockers: 2 Fingerprint
 Access Base Sektor: 1 Convert UID use global settings

First Locker: use standard setting
 Sektor to use: 4
 Keys (uncoded Card): KeyA: FFFFFFFF KeyB: FFFFFFFF
 Access with: Read: Key A Write: Key A

Second Locker: use standard setting
 Sektor to use: 5
 Keys (uncoded Card): KeyA: FFFFFFFF KeyB: FFFFFFFF
 Access with: Read: Key A Write: Key A

Keychange Fingerprint: use standard setting
 be carefull that you do not select a sector twice (not checked) -1=not used
 Use sectors - Fingerprint need min 9 Sectors: Optional:
 6 7 8 9 10 11 12 13 14 -1 -1 -1 -1
 set standard values
 Open Save Exit

5. GANTNER Coding - Sitekey



Sitekey coded to GANTNER data carrier and basic sets



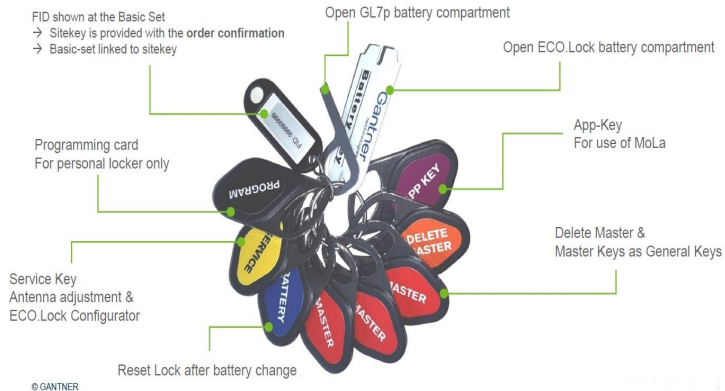
Sitekey configured in every device



5. GANTNER Coding - Sitekey - WORDING

- UID - Unique identification number of data carrier – coded by card manufacturer
- FID - Facility identification number for each customer – GANTNER created 8 digits number g. 10004190
- KeyA, Key B - Read/Write Key to read /write card segments
- SITEKEY - Identification number generated by GANTNER out of FID, KeyA and Key B . For communication between data carrier and device
- Card Segments - On Mifare Classic Data Carriers.
- Segment 4 and 5 for Locker number, 6 to 15 for finger print credentials.

6. Basic set



6.1 Unboxing Basic set



7. Battery Locks Ordering Guide - MIFARE/ ISO, LEGIC, HID

GAT ECO.Lock



Normal doors

Metal doors



7. Battery Locks Ordering Guide - MIFARE/ ISO, LEGIC, HID

GAT ECO.Side Lock



Wooden doors

Metal doors

Glass doors



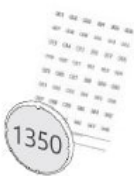
7. Battery Locks Ordering Guide - MIFARE/ ISO, LEGIC, HID



Button Plate



Number Plate



Number Sticker
001 - 050

8. Ordering example
- ECO.Lock + Basic Set + Label

Optional

728429
GAT ECO.Lock 7100 **F**ISO

308819
Batterie 1.5V Alkali AA

1100550
GAT ECO.Basic Set **FD**

1100369
GAT Key Tag **FD**
Open Master

666329
GAT ECO.Lock 7100 Label **GEA**

8. Ordering example
- ECO.Side Lock Networked + Basid Set METALL DOORS + Basic Set + Label

Mandatory

800925
GAT ECO.Side Lock 7000 **NW**
BA

532123
GAT NET.Lock Bolt Set 7200

914430
Batterie 3.6V
Lithium 3L-860/S

Optional

1106592
GAT NET.Lock Basic Set
BA

679135
GAT NET.Lock Label
GEA NUM Left

8. Ordering example

-GL7p with PIN + Offset Cam + Number Plate + Basic Set

Mandatory

Optional

A	B	ArtNr	Name
11 mm	13 mm	1103401	GL7p WR3113H offset cam with hook end
35 mm	8 mm	1106024	GL7p WR3502H offset cam with hook end
35 mm	8 mm	1103548	GL7p WR3502H offset cam with hook end
35 mm	8 mm	1106027	GL7p WR3502H offset cam with hook end
35 mm	8 mm	1106028	GL7p WR3502H offset cam with hook end
35 mm	10 mm	1103547	GL7p WR3510H offset cam with hook end
35 mm	13 mm	1103548	GL7p WR3513H offset cam with hook end
x mm	x mm	1103400	GL7p customized offset cam with hook end

922627
GL7p, 1500
1...with PIN
5...Mifare

914430
Batterie 3.6V
Lithium SL-850/S

1103547
GL7p WR3510H offset cam with hook end

1103180
GL7p Number
Plate

1100550
GAT ECO Basic Set
FD

9. Lockermodes and Credentials

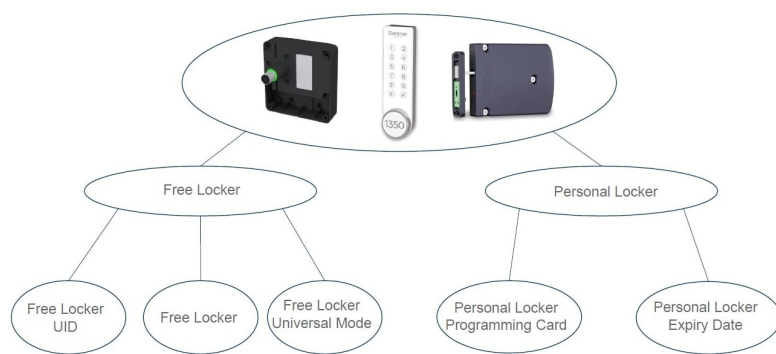
9.1 Lockermodes and Credentials - Main Locker modes



- Locker is available to any user
- Locker is available again after use
- No permanent allocation at locker

- Only assigned user has access to locker
- Permanent allocation at the locker
- Multiple assigned user per locker possible

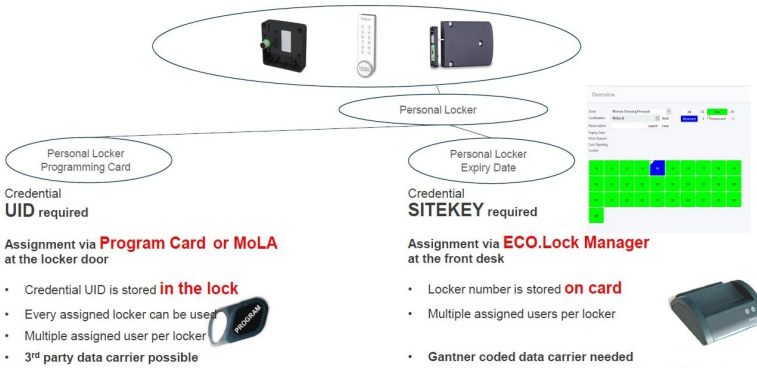
9.2 Lockermodes and Credentials - All Available Locker modes



9.3 Lockermodes and Credentials - Free Locker modes



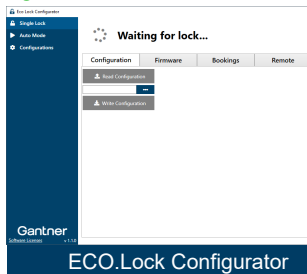
9.4 Lockermodes and Credentials - Personal Locker modes



10. Basic-Set and Configuration - MoLA and ECO.Lock Configurator

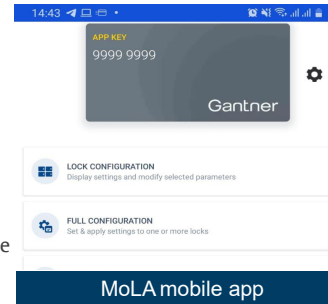
10.1 ECO.Lock Configurator - Standard Commissioning Software

- Standard Software for Commissioning
- No license required
- Single lock or bulk configuration
- Save configuration for further use
- Firmware updates
- Extract event logs/ bookings and store in a file
- Sync lock time



10.2 - MoLA – Mobile Lock Administration - Flexible solution for Administrator

- Commissioning and Administration
- Single lock or bulk configuration
- Save configuration for further use
- Easy re-configuration
- Simple configuration of replacement Locks
- Read event logs/ bookings
- Sync lock time
- Firmware update with OTG-Adapter possible



Manual : <https://www.gantner.com/download/49115/?v=49116>

Google PlayStore

<https://play.google.com/store/apps/details?id=com.gantner.mola&gl=AT>

Manual : <https://www.gantner.com/download/52116/?v=52117>

Software : <https://www.gantner.com/de/download/51846/?version=1-1-0>

11. Configuration Parameter and Usecases

11.1 Application: Fitness / Attraction – Day Locker

Battery Locks:
FreeLocker and coded credential

Requirements:

- Battery operated locker
- User can only have one locker at a time
- CheckIn
- Retrofitting or new locker

Solution:

Battery operated locker

- GAT ECO.Lock 7100,
- GAT ECO.Side Lock 7010,
- GL7p



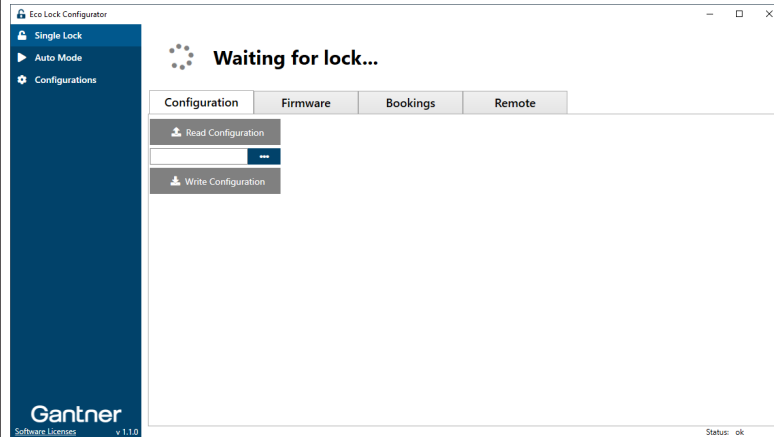
One user per locker

- Operation mode: FreeLocker and coded credential
 - **Locker number stored on credential**

Retrofitting

- Eco.Lock or GL7p

11.2 Application: ECO.Lock Configurator



• Step by Step to FreeLocker Mode 1/3 - Single Lock configuration

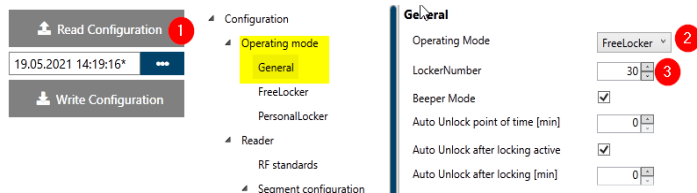
- Download ECO.Lock Configurator
<https://www.gantner.com/download/51845/?version=1-1-0>
 Manual:
 No license required
 Service-Key fob required for re-configuration
- Connect the Lock and notebook with config-cable
- Go to **Single Lock** and configure your starting lock
 Click **Read Configuration** to read out the configuration

Situational:

- For re-configuration present Service-Key fob at the door
 - Lock is flashing Red and Green!

• Step by Step to FreeLocker Mode 2/3 - Single Lock configuration

- Go to **Operation mode** and **General** to select your Lockermode
 - Select **FreeLocker** if not set by default
 - Define the starting **LockerNumber**
 - Define an **Auto Unlock point of time** eg. 1380 min = 23:00/ 11pm

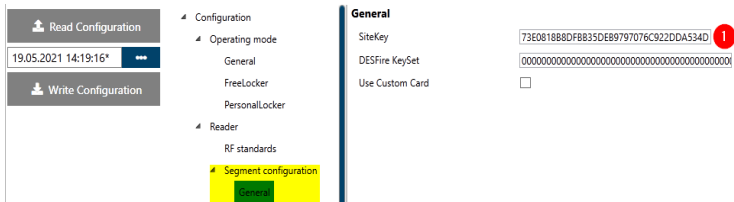


- Go to **Segment configuration** and **General** and add the **SiteKey** from the Order Confirmation
 - This is needed to activate your BasicSet.

- Proceed with custom settings

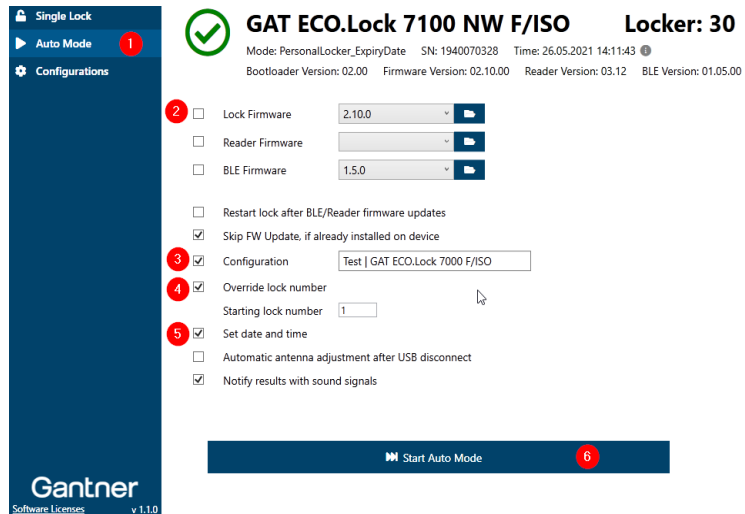
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- **Write Configuration** to apply the settings to the lock
- ... to save the configuration for further use



• Step by Step to FreeLocker Mode 3/3 - Bulk configuration – copy config to multiple locks

- Go to **Auto mode**
 - Optional: Select latest Firmware
 - Select/ check the configuration
 - Your last configuration will be selected automatically
 - Select your starting number
 - Select set time and date
 - for time synchronisation
 - Start Auto Mode to start bulk configuration



11.3 Application: Assigned Locker – Hotel, Garages etc.

Battery Locks :

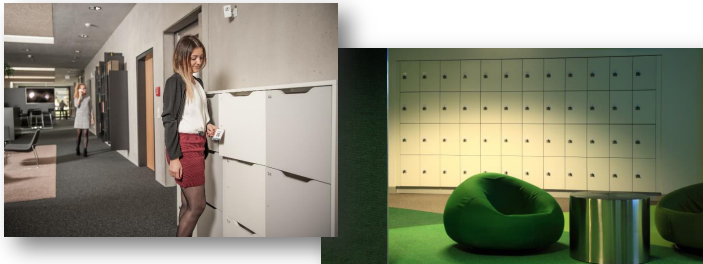
– PersonalLocker with Programming_Card and coded /uncoded credential

Requirements:

- Battery powered lock
- Personal/assigned locker
- Some locker have shared use (Medicine locker)
- No management software

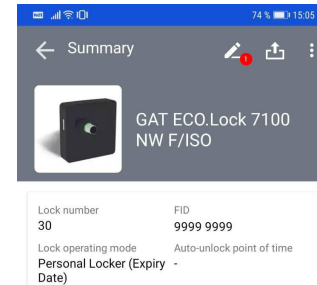
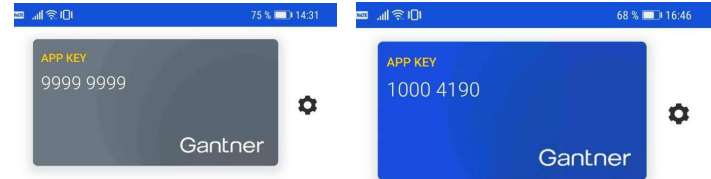
Solution:

- Battery powered lock
 - GAT ECO.Lock 7100, GAT ECO.Side Lock 7010, GL7p
- Personal / assigned locker
- Some locker have shared use (Medicinelocker)
- No Management software
 - PersonalLocker_Programming_Card
 - Assignment manually at the locker door (up to 32 user per Locker)



• Step by Step to PersonalLocker mode - MoLA re-configuration

- Activate your App-Key
 - To allow re-configuration of customer Locks if Sitekey is already set or
 - To apply a new SiteKey to default locks
- Go to Lock Configuration and present mobile at the locker door
 - To read the lock configuration
- Tap on the Edit button on top
 - To edit the lock configuration
- Select operation mode Personal Locker (Programming Card)
- Activate Lock without data carrier (push to lock)
- Tap Preview to proceed
- Tap Apply to apply the configuration to your Lock











References

- Programming Card or MoLA-App



OR



-  **LOCK CONFIGURATION**
Display settings and modify selected parameters
-  **FULL CONFIGURATION**
Set & apply settings to one or more locks
-  **LOCK EVENTS**
View events stored in the lock
-  **SET TIME**
Set date and time in the lock
-  **MANAGE CONFIGURATIONS**
Update, import & export saved configurations
-  **SYNC PERSONAL LOCKER**
Sync cards for the personal locker from Relaxx (feature preview)
-  **UPDATE FIRMWARE**
Update firmware through OTG
-  **RESET CONFIGURATION**
Reset configuration

Version 1.6.0.1 (Build 31)



The leader in door access control systems

www.acssolution.cz

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