



Operating instructions

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Dimensions

 \emptyset 43 mm × 34 mm (diameter × height)



Operating temperature

 $5^{\circ}-50^{\circ}C$ The USM Haller lock C is intended for indoor use only.

Power supply

 $2 \times \frac{1}{2}$ AA batteries, 3 V e.g. "Varta" brand Pay attention to the correct polarity:

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Already included in lock C on initial purchase. Service life: 15,000 locking cycles or 2 years

Power consumption

Max. 110 mA

Radio frequency

RFID 13.56 MHz Bluetooth[®] 2.4–2.4835 GHz

Transmitter power

RFID 345 mW Bluetooth® +4 dBm

Radio range RFID max. 50 mm Bluetooth® max. 20 m

Radio modulation Bluetooth[®] Low Energy: GFSK

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1 Product information

1.1 Cooperation between USM and BURG

USM and BURG jointly developed the USM Haller lock C in close cooperation by drawing on their respective in-depth know-how and experience. Both companies have a great passion for innovation and technology.

Like USM, BURG is also a fourth-generation family business. The company is best known for its padlocks. The first hand-made BURG lock was sold in 1890. Today, over 130 years later, BURG develops, designs and manufactures mechanical and electromechanical locking systems including firmware and the associated apps and cloud applications.

1.2 General information

The USM Haller modular furniture system and all of its associated product parts are intended for indoor use only. USM is not liable for any damage caused by incorrect or improper use or operation.

Do not remove the battery separator strip until you start up the product.

Do not remove the nameplates.

Read this instruction manual carefully before starting up the USM Haller lock C. It is important that you familiarise yourself with the product and its features.

1.3 Operating modes

The USM Haller lock C can be operated with User cards (RFID) or smartphones and the "USM lock C" app (Bluetooth[®]).



2 Product parts

2.1 Lock C

Lock C comprises an end cap with a locking state indicator and a light ring.

- 1 The locking state indicator shows if the lock is open or closed.
- 2 The light ring gives feedback via light signals.

Closed lock C: If the indication slot is in vertical position, the lock bolt is extended.

Open lock C: If the indication slot is in horizontal position, the lock bolt is retracted.

2.2 Service tool

The service tool is used for changing the batteries by simply placing it over the lock C. The service tool contains a magnet that helps to remove the batteries from the battery compartment.

- \longrightarrow Changing the batteries p. 13
- 1 Markers indicating the correct service tool alignment on lock C
- 2 Marker for the magnet









2.3 Main Admin card

The Main Admin card identifies you as the owner of your locks and is used for administrative management purposes (Admin cards).

During start-up, once the battery separator strip has been removed, the card which first makes contact with the lock C is defined as the Main Admin card.

If the Main Admin card is stored on the admin's smartphone, the programming can also be carried out with the smartphone.

The Main Admin card cannot be used for opening or locking the locks.

The Main Admin card can be stored on a smartphone.

2.4 Admin card

/!\

The Admin card can be used for an emergency opening.

All locks which have been programmed on the card can be opened in an emergency.

Between one (min.) and three (max.) Admin cards must be programmed per USM Haller lock C.

The Admin card can be stored on a smartphone.

/! The Admin card cannot be used for locking the locks.

2.5 User card

User cards are used for opening and locking the locks.

Area of use: Public Locker mode, Personal Light Locker mode

User cards are optional and can be ordered at the customer's request.

In addition to USM User cards, companies can also use their own RFID cards provided they support the ISO 14443A, 13.56 MHz radio standard (e.g. MIFARE Classic, MIFARE DESFire EV1 + EV2, MIFARE Ultralight EV1, LEGIC prime, LEGIC advant).

If companies wish to use their own RFID cards, we recommend checking compatibility in advance.

Main Admin	

Admin

2.6 USM lock C app

The app is available in iOS and Android versions.

It can be used for opening and locking the locks. Area of use: Public, Personal and Shared Locker modes

With the intuitive, user-friendly app, users can easily manage, personalise or share one lock C or several locks.

- Key function (locking and opening function)
- Management of personalised locks (personal and shared)
- Overview of users' own locks (public, personal and shared)
- Carry out firmware updates in the background

The admin has an overview of all of the locks assigned to him/her and can manage/maintain these or read the relevant activity information.

- Access Admin
- Manage and maintain locks
- Distribute grants
- Emergency opening of all locks in the lock pool

Llaar			
User			



Android







2.7 Delivery scope and management

Product accessories are recommended depending on the number of locks purchased. The following basic equipment is supplied as standard with your first lock C order:

The admin should keep this card in a safe place. If he/she wishes, it can be stored in the app. USM recommends having one Main Admin card per site.

Storage: 1 \times Admin, 1 \times Admin proxy, 1 \times safe, boss or receptionist

For security purposes and to simplify management, USM recommends programming three Admin cards per lock and setting up just one lock pool which is then represented by the 3 x Admin cards.

The admin is responsible for storage. USM recommends having one service tool per site.

The admin is responsible for storage. USM recommends having one User card per site to check that the functions are working properly.

User cards are optional for users and are only ordered at the customer's request. The number of cards depends on the customer's order. As a general rule, one card is calculated per user.

The number of individual components can be increased if necessary. You can reorder these individually from your USM retailer.



User

1 ×

1 ×



3 × Admin

Briefl Flash

3 Start-up

Follow the steps below to start up a lock.

Designate a Power User and his/her proxy.

The Power User is responsible for the following tasks:

- Starting up the locks
- Managing and maintaining the locks
- Briefing the lock C users
- Managing the product accessories

Take extra care when carrying out these steps. If you start up the lock correctly, you will have no problems using your lock C.

Step 1 initiating lock C

Make sure that the indication slot on the front of the lock is vertical. Remove the separator strip by pulling on it. Lock C start-up begins. Flashing signal: 3 × green

Step 2 — programming the Main Admin card

Take the Main Admin card (red) and hold it briefly in front of the lock. Flashing signal: $1 \times \text{green}$, $1 \times \text{red}$

Briefly hold the card in front of the lock again to confirm this. Flashing signal: 1 \times green, 1 \times red



Step 3 programming the Admin cards

Pick up the Main Admin card (red) and the Admin cards to be programmed (grey).

- 1. Hold the Main Admin card on the lock. Flashing signal: 1 × green, 1 × red
- 2. Now hold all of the Admin cards to be programmed on the lock, one after the other. Flashing signal per card: 1 × green, 1 × red
- 3. Afterwards, hold the Main Admin card on the lock once again. Flashing signal: 1 × green

The same process can also be carried out with (i)just one Admin card.

The Admin cards are now programmed.

Step 4 – Check functionality

(i)

Hold the supplied key card in front of the lock. The lock is now locked. Flashing signal: 1 × green

Hold the key card in front of the lock again to unlock it. Flashing signal: 1 × green

Now turn the lock handle 90° clockwise to open the locker.

/!\

Carry out the same start-up procedure for all locks.

Once the locks have been started up, they will be in "Public Locker mode" and can be operated in principle using key cards or smartphones. However, we recommend installing the USM app in advance and using this to manage the locks. \longrightarrow Management with the USM app p. 12





Deprogramming 4 Admin cards

You can deprogram (delete) Admin cards. To do so, proceed as follows:

Deprogramming Admin cards individually

- 1. Hold the Main Admin card over the lock. Flashing signal: 1 × green, 1 × red
- 2. Hold each of the Admin cards to be deleted over the lock for a few moments. Flashing signal: 1 × green
- 3. Wait 10 seconds for the red flashing signal. Flashing signal: 1 × red
- 4. Afterwards, hold the Main Admin card in front of the lock once again Flashing signal: 1 × green

Deprogramming the Main Admin card and all Admin cards.

If an Admin card gets lost or you wish to reset an entire lock pool, you can delete all of the programmed (saved) Admin cards and the Main Admin card in one go.

1. Hold the Main Admin card over the lock and wait 30 seconds for the green flashing signal. Flashing signal: 1 × green, 1 × red (30 sec.) 1 × green

The lock will restart after this process. The lock can be reprogrammed once it has flashed 3 × green.



USM only recommends carrying out this process on lock Cs that are open and not personalised (Personal Locker and Personal Light Locker mode).





5 **Operating lock C**

User modes 5.1

The USM Haller lock C has up to four user modes.

"Public Locker mode" is the basic mode and can be operated using both User cards and smartphones. In this mode, lockers are not permanently assigned and can therefore be chosen freely.

"Personal Light Locker mode" can only be operated by a User card. Lockers in this mode are permanently assigned to one user.

The other two user modes - "Personal Locker mode" and "Shared Locker mode" are also available for operation via smartphone. As such, lockers can either be personalised (Personal Locker mode) or shared with others for joint use (Shared Locker mode).

Public Locker mode Personal Light Locker mode Personal Locker mode Shared Locker mode Opening lock C Flashing signal: 1 × green (if the "Auto Close" function is activated) Flashing signal: 2 × green -4 - -4 (1 × green, after 4 sec. 1 × green) A row of lockers is available to The lock is personalised and In this mode, the lock is A personalised locker is assigned several users. The User card/ permanently assigned to one personalised. It is permanently to one person or a group of smartphone is valid for just one user for long-term use. This assigned to one user for longpeople. Access to the lock is horizontal position and the bolt is retracted. locking operation per lock and is mode is only available with a term use. Other users cannot then enabled via the app. deleted from the lock once the User card. With a User card, operate (i.e. open or lock) this The person who personalised the 3. The lock is now open. locker is re-opened. With a User any number of locks can be lock remains the owner. This locker. card, any number of locks can locked at the same time. person can withdraw access or be locked at the same time. (i)grant access to other people at (i)any time. Personal Locker mode is "Shared Locker mode"). a prerequisite for the use of Shared Locker mode, (i)- Assigned lockers - Free choice of locker - Assianed lockers - Shared lockers - Temporary use* - No accidental locking of - Safe and long-term storage - Temporary or long-term unassigned locks of documents, equipment access and/or personal belongings. Application examples: fixed Application examples: open Application examples: desk Application examples: storage spaces, desk-sharing, cloaksharing with assigned lockers, workstations, storage of location for group projects, confidential documents, rooms in reception areas, etc. fixed workstations exchange of documents in a managers' offices safe place, access if someone is on holiday or absent (access can also be granted remotely).

* Technically, Public Locker mode can

also be used in the long term provided the same person always uses the

same locker

5.2 Operating lock C

Locking lock C*

- 1. Hold your User card or your smartphone (with the app open) in the middle of the lock C that you wish to lock. Flashing signal: 1 × green
- 2. Turn the lock handle 90° counterclockwise so that the slot is in vertical position and the bolt inside moves upwards.
- 3. The lock is now locked.

* If the "Auto Close" function is activated, you only need to hold your smartphone over the lock to open the locker. To close it, simply turn the lock handle 90° counterclockwise (there's no need to use your smartphone again). The lock locks automatically after 4 seconds.

You can enable this function and it is available in both "Personal Locker mode" and "Shared Locker mode".

- 1. Hold your User card or your smartphone (with the app open) in the middle of the lock C that you wish to open.
- 2. Turn the lock handle 90° clockwise so that the slot is in

The lock can only be opened with the same User card or smartphone that it was locked with (except in

All locks can be opened by the admin in an emergency.







5.3 Personal Light Locker mode

Setting up Personal Light Locker mode

- 1. Hold your User card in the middle of the desired lock C for 6 seconds. Flashing signal: 1 × green, after 6 seconds 1 × green and 1 × red
- 2. Now hold the same User card in front of the same lock C. Flashing signal: 1 × green

(i)The lock is now in Personal Light Locker mode.

(i)The lock can be operated as specified in point 4.2, but only with the programmed card.



Changing the batteries USM Haller lock C Operating instructions 6

As admin, you can view the battery status of each individual lock C using the app. A lock C also warns you via a flashing signal when the batteries are nearly empty and need to be replaced. This flashing signal appears after an action (i.e. opening or closing). After the first warning signal, only a few more actions can be performed.

Replacing the batteries

1. Place the service tool over the lock C making sure that the markers are aligned vertically. Once the tool is correctly positioned, the safety mechanism of the end cap will be released.

Removing Personal Light Locker mode

1. Hold your User card in the middle of the desired lock C for 6 seconds. Flashing signal: 1 × green, after 6 seconds 1 × green

(i)

The lock is now in Public Locker mode again.

The programming of Personal Light Locker mode can $\underline{\mathbb{N}}$ be overwritten by another User card when the lock is open.

After an emergency opening, the personalisation $\underline{\mathbb{N}}$ expires and the lock is in Public Locker mode again. The personalisation also expires if you hold the admin card in front of the lock while it is open.



2. Remove the cap by gently pulling it towards you.

3. Then remove the service tool.

4. The battery compartment is at the top right. Open the battery cover by lifting up the left side with a tool then flipping the cover outwards to the right.



5. Hold the triangle symbol of the service tool towards the battery to be removed. The battery will be removed from the lock magnetically. Repeat this step for the second battery.

6. Insert new batteries. The inscription on the front shows the right direction for both batteries (+ / -).

7. Close the battery cover. Flashing signal: 3 × green

8. Align the small clasp on the inside of the end cap with the opening on the left of the lock.

- 9. Put the end cap back onto the lock making sure that the front slot is completely vertical. The end cap will automatically click into place.
 - The lock should be used shortly after a battery change in order to activate the service runs. Service runs ensure that lock Cs regularly move their gear unit to keep the mechanical lock components in good working order.

(i)

7	Flashing signals	

Flashing signal	Situation Cause
1 × green	 When locking or opening a lock C User card or smartphone When opening a lock C with an en card (Admin card)
2 × green	 When opening or closing a lock w function activated
$3 \times \text{green}$ $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$	 When a lock C restarts During initial start-up After a battery change After a firmware update
Green running light	 During a lock C firmware update
1 × green, 1 × red	 When programming a Main Admir front of the lock When programming or deprogram Admin cards
1 × red	 An attempt to open the lock witho access rights Time-out if too much time elapses programming
3 × orange → → → → or Red running light	This flashing signal appears after an or closing) — Batteries are almost empty
No flashing signal	 Batteries are empty Lock no longer responds
$2 \times \text{red}$ (very brief)	 Two card block (If there are two cards behind one for example, the lock cannot be lock





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Troubleshooting

with an authorised	-
mergency opening	
vith the "Auto Close"	_
	_
	_
n card or holding it in	-
nming Main Admin or	
out authorisation/	-
s during	
action (i.e. opening	Replace the batteries at the next opportunity.
	After the first warning signal, only a few more actions can be performed.
	Restart the lock by opening and closing the battery cover. If the lock still doesn't respond, replace the batteries.
another in a wallet, ocked)	Only use the desired card to lock the lock and move the other card away.

Disposal, transport 8 and alterations

Disposal

Do not dispose of your item or furniture, or parts thereof, in household waste. Use your local collection point to return and recycle old electric and electronic appliances. Please remove the batteries beforehand and dispose of them appropriately.

The separate collection of old electric and electronic devices ensures that these items are correctly re-used, recycled and disposed of without having a negative impact on the environment or human health due to hazardous substances.

The crossed-out dustbin indicates that the product R must not be disposed of in household waste.

Transport and alterations

Any delivery and relocation work or any alterations to USM Haller furniture units must be carried out by USM or by authorised USM retail partners.

9 Compliance

IC: 30925-LOCK1C

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- 1. This device may not cause interference.
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

Radiofrequency radiation exposure Information: This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- 1. L'appareil ne doit pas produire de brouillage ;
- 2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux ravonnements IC établies pour un Environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Ce transmetteur ne doit pas être place au même endroit ou utilise simultanément avec un autre transmetteur ou antenne.

FCC ID: 2BBFS-LOCK1C

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance voids the user's authority to operate this equipment.

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

Complies with **IMDA** Standards DA109012

EU Declaration of Conformity

We hereby declare that the following product, in the version placed on the market by us, complies with the test specifications indicated below. If the product is modified or used inappropriately, this declaration shall become invalid.

Description: Product/model Product name: Article number Manufacturer

Office furniture Electronic lock USM Haller lock C (Primus) 18760 USM U. Schärer Söhne AG Thunstrasse 55 3110 Münsingen, Switzerland

Authorised representative for technical documents

Stefan Krenger

This Declaration of Conformity is issued under the sole responsibility of the manufacturer.

The product complies with the relevant Community harmonisation legislation:

RED 20144/53/EU REACH 1907/2006/EC ROHS 2011/65/EU EN IEC 63000:2016 (RoHS)

Test specifications applied:

Münsingen, 30 March 2022

ETSI EN 301 489-1 V2.2.3 (2019-11) - EMC ETSI EN 301 489-3 V2.1.1 (2019-03) - EMC ETSI EN 301 489-17 V3.2.4 (2020-09) - EMC IEC EN 62311:2020 - human exposure ETSI EN 300 328 v2.2.2 (2019-07) - Bluetooth® Low Energy radio ETSI EN 300 330 v2.1.1 (2017-02) - RFID radio

Thomas Dienes

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USM Haller lock C Operating instructions

Date 04.24/en



Deputy Technology Manager

UNE-EN 62368-1:2014 + ACI:2015 + AC2:2015 + AC:2017 + AII:2017 - Safety

Group Product Development Director



UKCA Declaration of Conformity

We hereby declare that the following furniture, in the version that we have introduced on the market, conforms to the testing specifications indicated below. In the event of modification or improper use, this declaration becomes invalid.

Description: Product/model: Product name: Item number: Manufacturer: Office furniture Electronic lock USM Haller lock C (Primus) 18760 USM U. Schärer Söhne AG Thunstrasse 55 3110 Münsingen, Schweiz

Deputy Technology Manager Stefan Krenger

The manufacturer bears sole responsibility for displaying the declaration of conformity.

The product complies with the following relevant harmonization directives:

Radio Equipment Regulations 2017 Supply of Machinery (Safety) Regulations 2008 ROHS in Electrical and Electronic Equipment Regulations 2012

Applied testing specifications:

Authorized representative for technical documents

ETSI EN 301 489-1 V2.2.3 (2019-11) - EMC ETSI EN 301 489-3 V2.1.1 (2019-03) - EMC ETSI EN 301 489-17 V3.2.4 (2020-09) - EMC IEC EN 62311:2020 - human exposure ETSI EN 300 328 v2.2.2 (2019-07) - Bluetooth® Low Energy radio ETSI EN 300 330 v2.1.1 (2017-02) - RFID radio UNE-EN 62368-1:2014 + ACI:2015 + AC2:2015 + AC:2017 + All:2017 - Safety

Münsingen, January 1st, 2023

Group Product Development Director Thomas Dienes

10 FAQ

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Where should I keep the Main Admin card and the other accessories?

USM recommends that the admin keeps this card in safe custody. The Main Admin card can be stored in the admin account in the app, whereas the physical card should be kept in a safe place (preferably a safe). As this card cannot be replaced, you should choose the safest possible storage location. You and the assigned card holders should keep the Admin cards in a safe place to prevent them from being used by unauthorised persons. Keep any accessories in the Admin kit so that all of the product parts remain together.

Can grants be distributed remotely?

Yes, grants can be sent remotely. The user needs a user account.

The grants are displayed to the user upon receipt.

Can I change the batteries when a locker is closed?

Yes, you can because the batteries are changed on the outside. This does not affect the programming and the lock remains locked if it was closed before the battery change.

Can the lock C be reset to factory settings?

No,

but thanks to its smart implementation the USM Haller lock C offers various solutions if your requirements change or a user loses his/her card, etc.

- If a user loses his/her User card or an employee forgets his/her smartphone, the admin can carry out an emergency opening using his/her admin card or smartphone.
- 2. The admin can pass on his/her admin rights.
- 3. Main Admin and Admin cards can be deleted from the lock.

→ "Deprogramming Admin cards" p. 9

Why does USM recommend programming three admin cards per lock?

In case an admin card gets lost or to carry out an emergency opening if the admin isn't on site. Furthermore, the locks can be divided into different areas of responsibility by allocating different Admin cards.

Can the service tool be kept together with the cards?

Yes, the service tool with its integrated magnet and the RFID cards can be stored together.

Why does my lock C make noises when I'm not even using it?

Lock Cs regularly move their gear unit to keep the mechanical lock components in good working order. During these movements, a locked lock C always remains locked and an open one remains open. If the lock is operated on a regular basis, i.e. it is opened or locked within 24 hours, these extra movements are no longer necessary.

What do I do if I have lost my User card in Personal Light Locker mode?

You can either delete the programming by holding the Admin card in front of the lock or overwrite it with a new card provided the lock is open.

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