LEHMANN®
www.lehmann-locks.com

GB

M400 Smart Secure

Operating instructions

Content **Page**

General system description 2

Safety precautions, care and maintenance, technical specifications 3

System components / Package contents, dimensions 4

Commissioning / Battery replacement, monitoring of the stop position of lock ... 5

Installation of optical display, installation of protector 6

Explanation of icons and functions 7

Teaching in furniture locks 9

Opening and closing of furniture locks 10

More operating instructions can be found on our internet page as a download.

BDA-M400_Smart Secure_GB (Rev-03) 12-07-2021

GENERAL SYSTEM DESCRIPTION

The electronic lock M400 Smart Secure can be opened and closed with a smartphone/tablet and an app using the latest Bluetooth low energy technology. It is designed for use inside buildings and is not suitable for wet rooms. You can operate the lock with its basic functions with the free Basis App. Depending on requirements, additional functions can be uploaded subject to a charge. Apps are available for Android and iOS.
The following chargeable additional functions are available:

Comfort
The lock can be controlled easily with the Comfort function. As soon as you move out of bluetooth signal range with your smartphone/tablet, the lock closes automatically. You can activate the Keyless Go function. In this mode, your locks open automatically on approach with the smartphone/tablet, or close automatically on moving away. You can set the range at which the locks respond to the smartphone/tablet. There are five levels to choose from.

Organisation
Organise your locks in groups and operate the groups as a unit. You can flexibly assign individual locks to new groups.

Safety
Secure your lock by deactivating the programming function. This means that the lock cannot be programmed to other smartphones/tablets, unless you activate the programming function again. Secure each lock with your individual PIN code. Without a valid PIN code, the settings on the lock cannot be changed.

Please note:

Radio signals are not confined to rooms with regard to technology and do not require direct visual contact for triggering the desired action. The send command can thus be sent across larger distances and even through walls if required. At the same time, radio signals can be adversely affected by structural conditions, electrical fields and reflections. For reasons of safety and control, particular attention needs to be paid to usage of the display unit on the furniture lock. The display unit signals and acknowledges not only the locked status, but also informs you about the status in case of weak or empty batteries.

NOTES

Our locks and locking systems can basically be used together with mechanisms made by other manufacturers, but their compatibility must be checked by the processor in each individual case. We cannot accept any liability for damage or losses due to incompatibility.

Please check our website www.lehmann-locks.com/en/electronic-locking-systems.html for further information about mobile devices that have been tested with this app.

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.

In operating systems (Android and iOS) there are limitations in the various Bluetooth Low Energy (BLE) chipsets that are installed in each device which restrict the number of parallel connections the device can hold. These restrictions range from a minimum of three to maximum ten simultaneous connections. The restrictions result from settings of the mobile device manufacturer and cannot be influenced by any application.

If the number of programmed / bonded locks within the Bluetooth range exceeds the number of simultaneous supported Bluetooth connections of the smartphone, the locks and the smartphone connect at random. A specific connection set-up is not selectable.

BDA-M400_Smart Secure_GB (Rev-03) 12-07-2021

SAFETY PRECAUTIONS

- Different types and brands as well as fresh and used batteries must not be mixed!
- When replacing the batteries, observe correct battery polarity and position! Do not reverse polarity!
- The batteries must not be charged!
- Do not heat or deform batteries, take them apart or short-circuit them!
- Never throw batteries into open fire!
- Keep the batteries away from children!
- Dispose of used batteries properly!

CARE AND MAINTENANCE

- Do not spill any liquid over or into the individual components of the system and never immerse the components in any liquid.
- Depending on the structural conditions, electronic sources of interference and/or frequency overlays, the transmission/reception range as well as the reception quality can be limited.
- Clean the system with a clean, soft, damp cloth only.
- Do not use any cleaning agents that contain abrasives or solvents like glass, thinners, alcohol, gasoline or ammonia, as these can damage the housing.
- Treating any of the electronic and mechanical components improperly or in any way other than described in this user manual may lead to malfunctions.

TECHNICAL SPECIFICATIONS

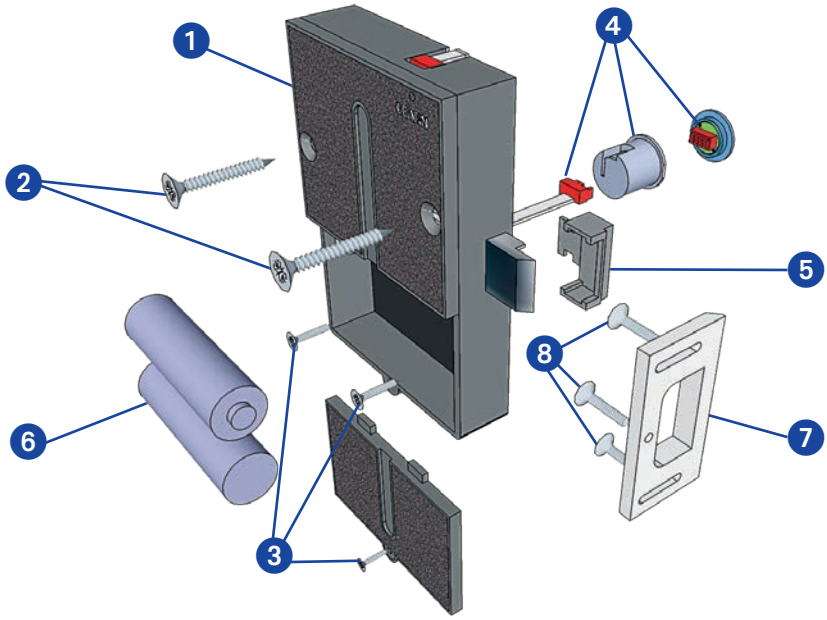
- The system is not confined to rooms. There needs to be no visual contact between the transmitter and receiver. Frequency: 2,480 GHz. GFSK modulation.
- National legislation about permissible radio frequencies must be observed.
- Range: Depending on the structural conditions, the transmission/reception range can be limited.
- You can pair a maximum of 4 smartphones/tablets with one furniture lock. Teaching in of additional smartphones/tablets is declined thereafter.
- Power supply for control electronics: Battery type: 2x AA / LR6 / alkaline 1.5 V. NiCd, NiMH or other rechargeable batteries as well as zinc-carbon or lithium batteries must not be used!

Temperature range:

Operation: +5°C to +40°C at 30% to 80% relative humidity, non-condensing.
In storage: -25°C to +70°C at 30% to 80% relative humidity, non-condensing.

BDA-M400_Smart Secure_GB (Rev-03) 12-07-2021

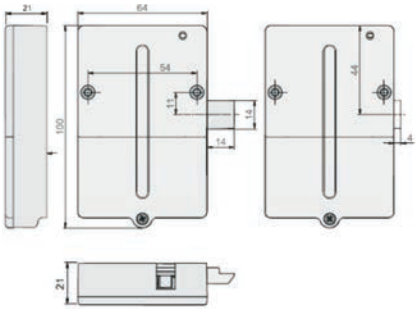
SYSTEM COMPONENTS / PACKAGE CONTENTS



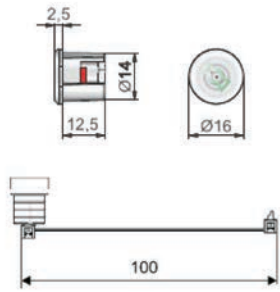
1 M400 Smart Secure furniture lock	2 x Spax 3x30 2	Display unit 4	2 x 1.5V AA 6	Operating instructions
	3 x Spax 3x13 3	Bolt protector 5	Striker plate 7	3 x Spax 3x13 8

DIMENSIONS

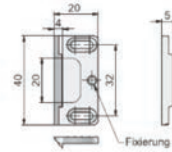
M400 Smart Secure electronics



Display unit



Striker plate

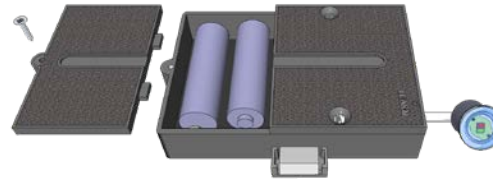


BDA-M400_Smart Secure_GB (Rev-03) 12-07-2021

GETTING STARTED / CHANGING BATTERIES

Before initial commissioning, ensure that all required accessories and attachment parts are available. Rechargeable batteries in the operating devices (smartphone/tablet) as well as batteries for the furniture locks should have sufficient energy. Follow the individual sections in the operating instructions step by step.

1. Loosen the screw. Open the battery compartment lid.
2. Insert / replace the batteries.
3. Close the battery compartment lid. **Fit the fixing screw.**



Only install the furniture lock in the furniture when it is unlocked.
Use only **LR6, AA, alkaline** type batteries. Make sure that the polarity is correct!
Rechargeable batteries, zinc-carbon batteries or lithium batteries are not permitted!

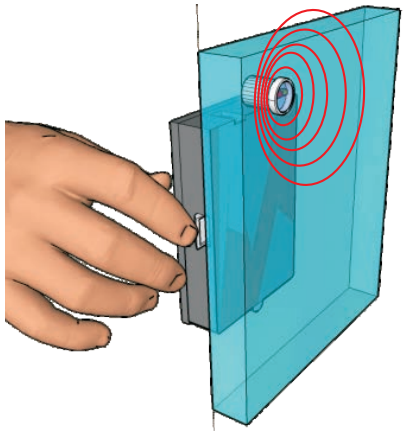
MONITORING THE STOP POSITION OF LOCK

The M400 Smart Secure furniture lock is equipped with a sensor for the stop position of the lock. If the lock does not reach the stop position following a closing command, an optical warning message is issued (see test function). In addition, you will receive a warning on your smartphone/tablet.

If the lock is already in stop position upon receiving a closing command, there is no additional closing movement.

Test function

1. Block the lock
2. Closing command from the device
3. Warning signal lights up



Optical warning on the display unit

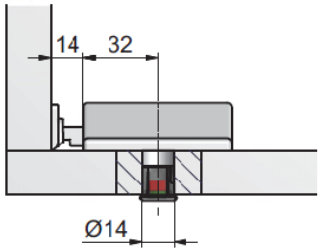
LED colour: **RED**

Stop position of lock not reached

The closing operation could not be completed. Locking bolt is blocked.

BDA-M400_Smart Secure_GB (Rev-03) 12-07-2021

INSTALLATION OF OPTICAL DISPLAY

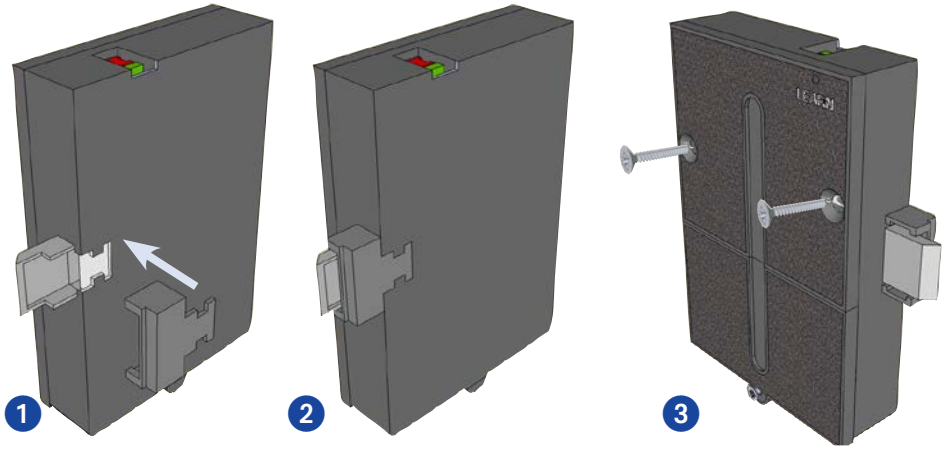


The display unit should be installed so that you have good visual contact. If you install the optical display separately from the control electronics, the length of the connection cable between these system components must not exceed 1m.

For the correct mechanical connection of the M400 Smart Secure system to your furniture, please refer to the installation instructions of your furniture manufacturer. If you have questions about the installation of the system, please contact a carpentry firm or your supplier before installation.

INSTALLING THE PROTECTOR

The bolt protector provided with the M400 Smart Secure can be used for additionally guarding the system against external mechanical manipulation. Depending on the purpose the M400 Smart Secure is being used for and where it is installed, we recommend fitting this additional, easy-to-mount guard.



DOWNLOAD THE APP

Please search in the Apple App Store or in Google Play Store for LEHMANN Smart Secure.
Please consider the recommendations for mobile devices that have been tested on www.lehmann-locks.com.
In-app purchases for additional functions possible.

EXPLANATION OF ICONS AND FUNCTIONS

Visible Locks

Shows all known locks in signal range as well as currently connecting locks and locks with a connection.

All Locks

All furniture locks stored in the iOS device are displayed. This is independent of the locks being within bluetooth range or not.

New Lock

Under this menu item you can add locks to the iOS device or pair it.

Groups

Under this menu item you can manage the grouping of locks.

Help

Quick guide and help topics. Online documentation:

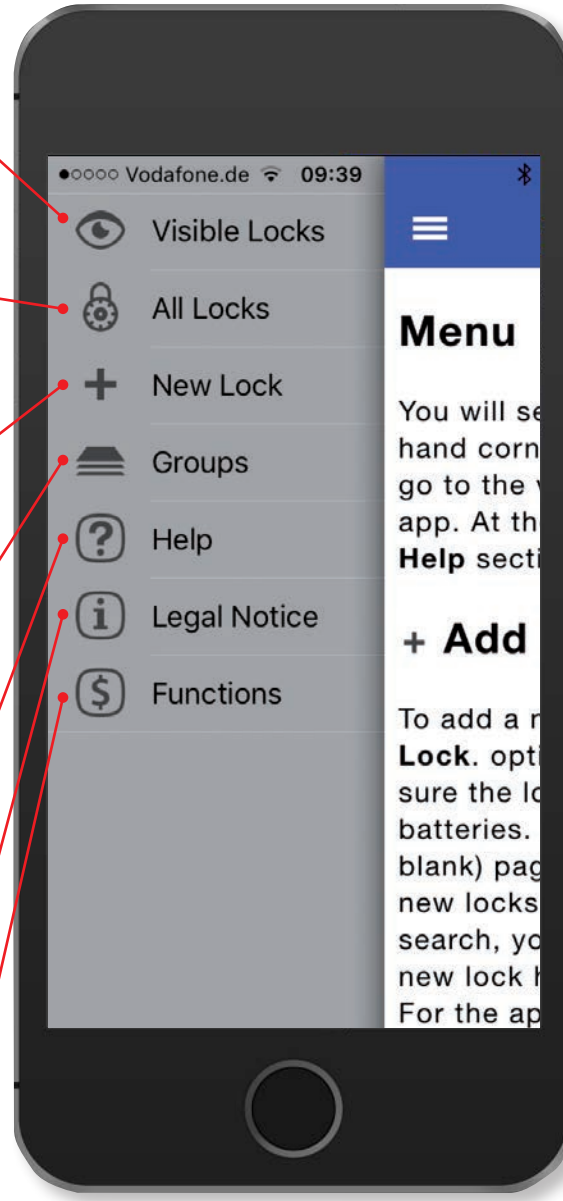
www.lehmann-locks.com

Legal Notice

Manufacturer specifications, licensing information.

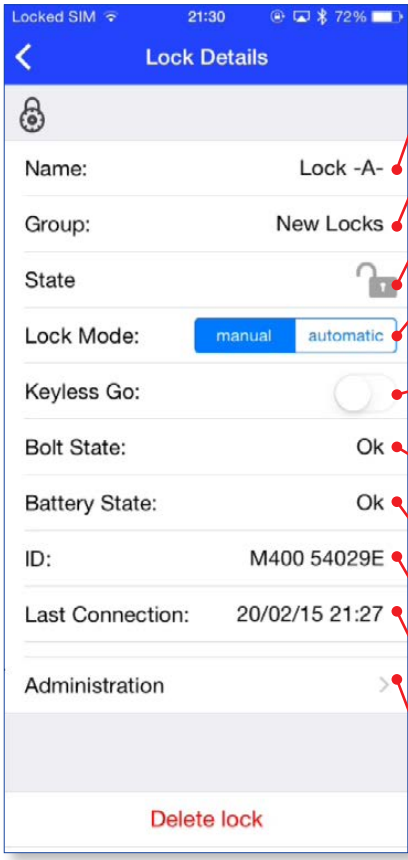
Functions

Under this menu item you can enable additional functions that are divided into 3 categories: Comfort, Groups and Administration.



BDA-M400_Smart Secure_GB (Rev-03) 12-07-2021

EXPLANATION OF ICONS AND FUNCTIONS



Customised name of the selected furniture lock.

Shows which group this lock is assigned to.

Shows the last known locking status.
locked, open.

Indicates the operating mode.
Here you can switch the locking type for the selected lock from manual (locking process only on command) to automatic locking following a lost connection.

Setting option for the Keyless Go function: automatic release of the lock when a connection between smartphone/tablet and lock is established.

If the bolt on the lock is fully extended or the lock is open, this is indicated by “OK”.
A warning is displayed in case of malfunctions.

Monitors the battery voltage of the furniture lock and warns you about low power in two stages.

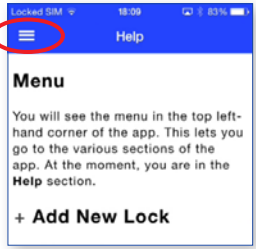
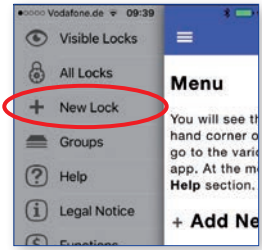
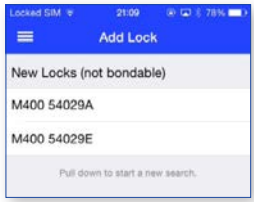
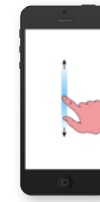
Shows the ID of the furniture locks.

The last contact between the smartphone/tablet and the lock is displayed here.

Submenu for safety-relevant settings like: Blocking the programming, deleting and resetting of locks. (Only in case of existing connection to the lock.)

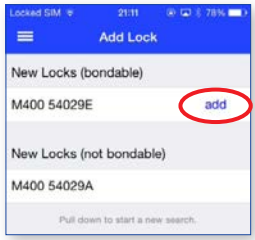
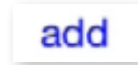
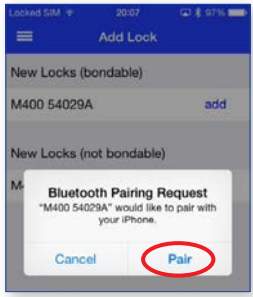
BDA-M400_Smart Secure_GB (Rev-03) 12-07-2021

PROGRAMMING OF FURNITURE LOCKS

Display / Menu	Description	Action
	Select the Smart Secure App to start the program.	
	The ***"Help page"*** is displayed the first time you start and when the list of locks is empty. Select the ***"Menu"*** icon.	
	Select the item ***"New Lock"*** from the menu being displayed. For reasons of safety, the transmission range is reduced in this setting in the smartphone/tablet. The distance between smartphone/tablet and lock should not be more than 30 cm.	
	Perform a manual update of the screen. All locks within range are displayed. To enable you to pair your smartphone/ tablet with a lock (and subsequently operate it), the ***"Learn"*** button must be actuated on the furniture lock.	

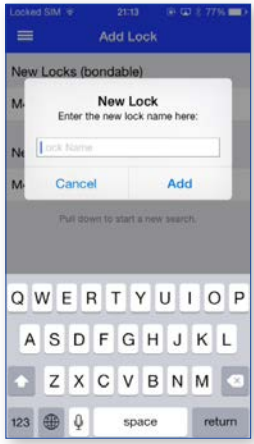
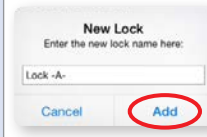
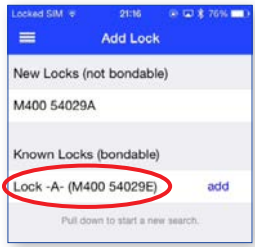
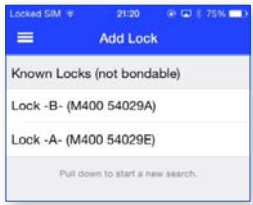
More on page 10

PROGRAMMING OF FURNITURE LOCKS

Display / Menu	Description	Action
	Briefly press the programming stick for the lock you want to pair. ***"Learn"*** button.	
	The selected lock is displayed as ***"bondable"*** after a short period of time. Use the ***"add"*** function.	
	If the lock is paired for the first time, a ***"pairing request"*** is shown. Confirm ***"Pair"*** in this case.	

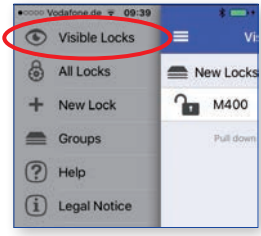
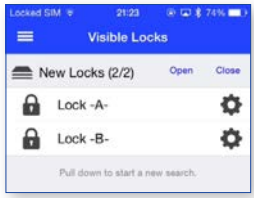
More on page 11

PROGRAMMING OF FURNITURE LOCKS

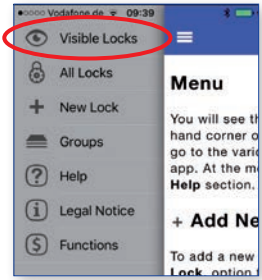
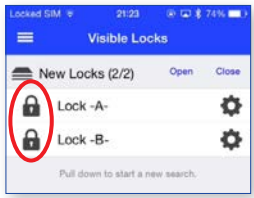
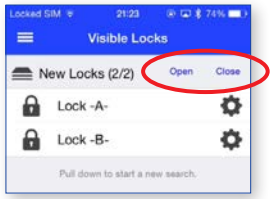
Display / Menu	Description	Action
	The following screen is shown automatically. Give the lock a unique name of your choice and then confirm with the ***"Add"*** button. The connection is established in the background.	
	Once the name has been assigned, the lock is displayed as a known lock.	
	If required, repeat steps 4 to 8 for additional locks, or return to the menu. In this example, the second lock was also programmed.	

More on page 12

PROGRAMMING OF FURNITURE LOCKS

Display / Menu	Description	Action
	Select the following option from the menu: ***"Visible Locks"***.	
	Shows all known locks in signal range as well as currently connecting locks and locks which are successfully connected to your smartphone / tablet You can now open and close the locks.	

OPENING AND CLOSING OF FURNITURE LOCKS

Display / Menu	Description	Action
	Switch to the display: ***"Visible Locks"***.	
	The locking status of the locks is shown. You can change the locking status by tapping on the lock icon of the respective lock.	
	Tapping on ***"Open"*** or ***"Close"*** changes all locks of this group simultaneously.	
	If there is a malfunction during a locking process, or the batteries are running low, a warning is issued. Select ⚙ to obtain details about the warning. Please check the lock in this case, or the locking function and / or the battery status.	

NOTES

NOTES

LEHMANN Vertriebsgesellschaft mbH & Co. KG
Uphauser Weg 82 • D-32429 Minden
Fon +49 571/50 599-0 • Fax +49 571/50 599-822
info@lehmann-locks.com • www.lehmann-locks.com
DIN EN ISO 9001:2008 certified

BDA-M400_Smart Secure_GB (Rev-03) 12-07-2021