# The locking system with an app

blueCompact

Paul                    Done

Name                    Paul >

Colour                  Blue >

Group                   Family

Authorisation overview        >

UID                     234567
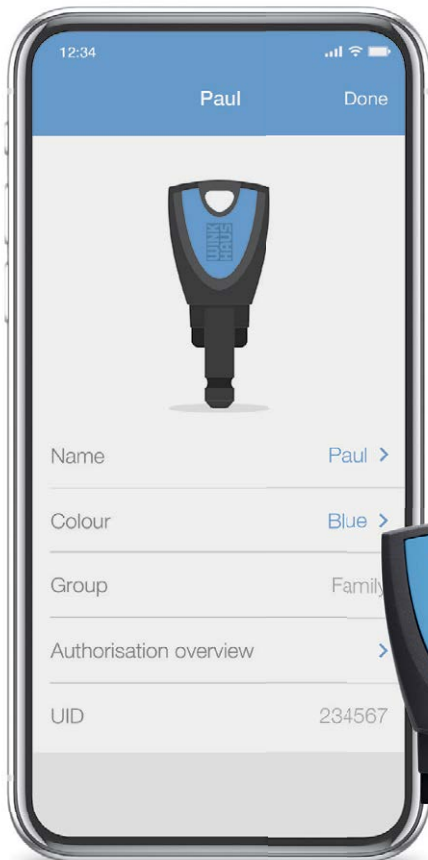
# Simple. Flexible. Smart.

Exceptional things always need someone to be the first to realise their value. In the case of electronic access control, Winkhaus is one of the first providers which has developed a key-actuated locking system controlled by an app, converting your home into a smart home right from its entrance door. Welcome to the intelligent future!

Electronic locking systems, just like blueCompact, offer many advantages: They are more flexible and easier for users to configure according to their needs, even at a later date. Users benefit from full control and an overview of the whole locking system.

This makes blueCompact not only ideal for smart homes, but also for smaller, forward-looking organisations. Discover yet more arguments in favour of electronic locking systems with the highlight from Winkhaus.

**blueCompact offers you:**

+ Intuitive: operation and management with an app
+ Fast: disable lost keys instantly
+ Transparent: monitor all locking events closely
+ Independent: issue locking authorisations remotely
+ Secure: data is stored on the masterkey
+ Ease of use: each step is explained in an instructional video
+ Uncomplicated: easy to replace and flexible to extend
+ Flexible: put time restrictions on access authorisations

# The smart system
# with the app

Smart not only means clever, but is also a clear sign of the digital era. Technology is simply more intelligent today. This new type of technological intelligence also opens up completely new opportunities for opening and closing doors.

blueCompact enables the entire locking system to be managed very easily with an app. It is one of the first systems ever to allow a smartphone to control all processes, make changes to locking authorisations and to alter time profiles.

Maximum convenience and user friendliness meet optimal flexibility. All in a locking system which leaves virtually nothing to be desired.

# No data
# in the cloud

We need to find different ways to protect data in an age when some resourceful people develop criminal tendencies and set their sights on data clouds. Even major companies with high-security firewalls are increasingly complaining about the theft of valuable data.

blueCompact does not let things get this far and has the right answer to such problems. None of the security-related details and authorisations for the blueCompact locking system are stored in the cloud or on the smartphone, but are kept safely on the masterkey instead.

Even if third parties still try to access data or you lose your smartphone: The data still remains secure. Because the information required to open doors is not on the smartphone either.

# Enable, disable, manage.

Obviously, a key will get lost or may be stolen at some point. In the past, all cylinders and keys would need to be changed just to be safe, but blueCompact now offers a far more convenient solution.

Thanks to management on the app and with the masterkey, the missing key can be instantly disabled. So it's instantly clear: anyone who wants to gain access to premises with this key will be left standing at the door. Moreover, it is virtually impossible to make an unauthorised copy of the key. So there is no need to replace cylinders. An essential requirement, in particular for companies and associations.

If the key should reappear unexpectedly at a later stage, it can be reactivated and everything is as it was before.

# Everything
# at your fingertips

The best places in a stadium are always those where you can see everything. blueCompact offers you the very same advantages.

The app allows you to clearly see exactly which key was used to gain access to a room at a particular time. Every blueCompact component saves the last 2,000 locking events. This can also be a useful function for time management in smaller companies.

This feature is also very useful in residential properties to check who comes and goes at any particular time. blueCompact enables users to read cylinders, allowing them to maintain an overview of all activity at doors in the building.

| David | 10:14 | ✓ |
| Emma | 10:35 | ✓ |
| David | 10:45 | ✗ |
| Paul | 12:24 | ✓ |
| Anna | 18:54 | ✗ |
| Paul | 19:45 | ✓ |

# Control,
# wherever you are.

Sometimes it's the tiny details which make life so much easier. That is why blueCompact is designed to deal with any eventuality, definitely making life more convenient.

As everything has been considered down to the last detail, the blueCompact locking system also provides a solution if a locking authorisation needs to be issued remotely. An additional empty, active user key can be left with a neighbour, for example, who can then use it in a real emergency.

Evidently, this is only possible if the owner uses the app and Masterkey remotely to allow the neighbour to enter. This can take place up to one month in advance and grants an authorisation to open specific doors for a defined time. The feature can be useful for managing access to holiday apartments efficiently and safely, for example, or simply just for checking whether the oven has been switched off.

# Creating and managing time profiles

External factors often mean that plans for the day can change unexpectedly or spontaneously. So it's hardly surprising that a control that proves useful one day, may have to be re-defined on another day.

blueCompact enables users to configure access for every key individually for every door and for a specific time as required. These time profiles can include whole days or just specific hours on a weekday. The clear display of the locking plan in the blueCompact app enables intuitive operation.

In many cases, this function is a major benefit for the user: A clear time control ensures that cleaning personnel can not access your property unexpectedly. For clubs too, where access should only be granted at training times, for example, this function is a useful tool. The same applies for companies, where employees should not be granted access or only limited access at the weekends or at night.
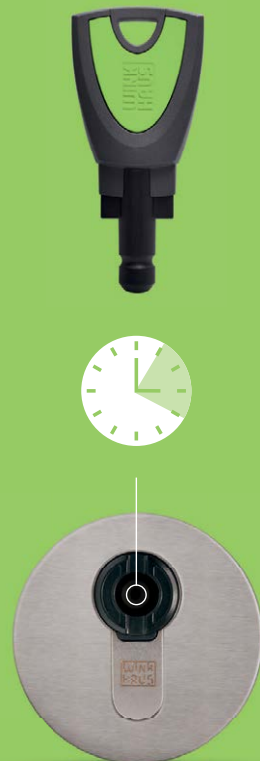
# Tasks as flexibly programmable

Now you can integrate motorised doors, gates or barriers, indoors or outdoors, easily in your locking system – the new blueCompact wall reader makes it possible. With its clever features, you will have even more design freedom for access control on your premises:

The assignment of locking times, manual or automatic permanent releases or locking authorisations are individually programmable for each reader and are transmitted securely thanks to encryption.

# System with potential for growth

Anything that grows also needs room to evolve. blueCompact provides such space and simply grows at the same rate as the number of doors increases.

The flexible, far-sighted locking system not only impresses due to its technological capabilities, but also thanks to its user-friendly components. The system's cylinders feature the same shape as conventional mechanical locking cylinders, so they can be fitted easily in existing doors without wiring.

If workspaces or homes are extended, the locking system can be easily adapted to the new structure, as blueCompact can be extended to include up to 99 keys and 25 cylinders or readers. You can also simply take the whole system with you when you relocate.

up to 99 keys

up to 25 cylinders

# blueCompact in comparison

If we compare blueCompact with classic, mechanical locking systems, we quickly realise that convenience and user-friendliness go hand in hand with security and long-term cost savings in blueCompact. The system thus provides its user with a truly all-round carefree package.

| | Mechanical locking system | blueCompact |
|---|:---:|:---:|
| Entrance security | ✓ | ✓ |
| Access organisation | ✓ | ✓ |
| Cost-neutral authorisation changes | | ✓ |
| Logging of locking events | | ✓ |
| Description of the doors and keys | | ✓ |
| Easy and direct access to instructions | | ✓ |
| Planning freedom and clarity | | ✓ |
| Modern and innovative design | | ✓ |
| Remote authorisation and authorisation planning | | ✓ |
| Time profiles | | ✓ |

# blueCompact
## Product overview

# blueCompact:
# Each component fits into the system.

blueCompact consists of a number of components for every scenario which are optimally matched to one another and can be put together to provide a tailored solution for any building. You can thus be sure that Winkhaus will always have the best solution for every situation.

The activation set contains everything you need to program your system for the first time. You can order locking cylinders and additional user keys to add to the system as required.

Example:
A cylinder for an external door needs to be measured to place an order. A distance of 43 mm is measured on the outer side and 29 mm on the inner side of the door. The following cylinder must be ordered: BO 21, cylinder length 45 (A) | 30 (B).

Detailed instructions for measuring cylinders correctly are available on pages 20/21.

## Activation set
## for starting your system

### Delivery scope
- 4 user keys (colours: blue, pink, green and yellow)
- An active key as masterkey
- Activation card
- PUK card
- Quick Start Guide

### Properties
- For putting the blueCompact system into operation
- Keep PUK card and activation card safe

## Masterkey
## Active user keys

### Areas of application
- Use as a masterkey for programming and managing the blueCompact locking system or use as an active user key for remote authorisation and authorisation planning
- Emergency power supply for cylinders (internal and external power function), e.g. for opening in the event of a completely discharged cylinder battery via inductive energy transfer
- Temperature range: –25 °C to +70 °C

### Properties
- As a masterkey, the active user key becomes the brains of the system and saves all data for the locking system
- Bluetooth Low Energy interface enables connection with iOS and Android smartphones via the blueCompact app
- Delivery incl. lithium cell batteries
- Easy battery replacement
- Reading of up to 2,000 locking events
- Up to 30,000 lockings or 4 years in stand-by when used as a passive user key (less during programming use and use as a power adapter)
- Multi-colour LED to signal the status (bluetooth, battery status etc.)

## User key
## blue, pink, green, yellow, gray

### Properties
- ID media for blueCompact cylinder

### Delivery scope
- Battery-free
- Maintenance-free
- Machine-washable
- Can be disinfected with Sterillium
- Temperature range: -20 °C to +75 °C
- Available in five trend colours blue, pink, green, yellow and grey

## Double cylinder
## type BO 01

**Areas of application**
- Standard doors in inside areas
- Doors which have to be closed electronically from both sides in a controlled fashion
- VdS environment class II and IP54 according to DIN EN 60529 between +5 °C and +55 °C

**Properties**
- Easily adjustable cylinder cam
- Delivery incl. lithium cells
- Up to 10,000 lock operations or up to 6 years on standby
- Protocol function with date and time
- Minimum length: 30.7 mm / 32.4 mm

A 30,7    B 32,4

|  | A (in mm) | B (in mm) |
|---|---|---|
| Basic length | 30,7 | 32,4 |
| available extension | 35 | 35 |
|  | 40 | 40 |
|  | ⋮ | ⋮ |
|  | +5 | +5 |

## Double cylinder
## type BO 05 (controlled electronically on one side)

**Areas of application**
- Doors which do not have to be locked and controlled electronically from the inside, e.g. office doors
- VdS environment class II and IP54 according to DIN EN 60529 between +5 °C and +55 °C

**Properties**
- One side (A side) checked electronically, can be closed with any blueCompact key on the B side
- Outside part of cylinder core on the B side rotates along with the A side when operated with locking cam adjustable to 8 positions
- Delivery incl. lithium cells
- Up to 10,000 lock operations or up to 6 years on standby
- Protocol function with date and time
- Minimum length: 30.7 mm / 30.7 mm

A 30,7    B 30,7

|  | A (in mm) | B (in mm) |
|---|---|---|
| Basic length | 30,7 | 30,7 |
| available extension | 35 | 35 |
|  | 40 | 40 |
|  | ⋮ | ⋮ |
|  | +5 | +5 |

## Knob cylinder
## type BO 04 MK

**Areas of application**
- Standard doors in inside areas
- VdS environment class II and IP54 according to DIN EN 60529 between +5 °C and +55 °C

**Properties**
- Electronically controlled from one side
- Easily adjustable cylinder cam
- The doorknob is mechanically always ready to close, doorknob made of brass and nickel-plated
- Delivery incl. lithium cells
- Up to 10,000 lock operations or up to 6 years on standby
- Protocol function with date and time
- Minimum length: 30.7 mm / 30.7 mm

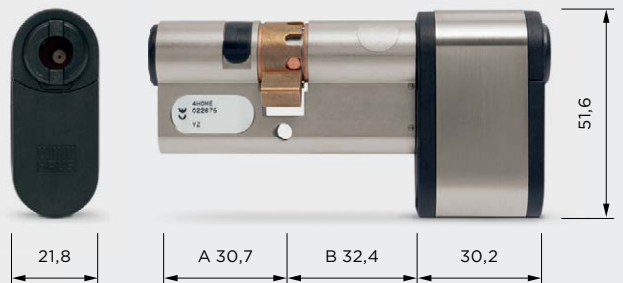|  | A (in mm) | B (in mm) |
|---|---|---|
| Basic length | 30,7 | 30,7 |
| available extension | 35 | 35 |
|  | 40 | 40 |
|  | ⋮ | ⋮ |
|  | +5 | +5 |

## Double cylinder
## type BO 21

**Areas of application**
- External doors, high-traffic doors, garden doors and gates
- Inside and outside
- VdS-environment class IV at -25 °C to +65 °C
- IP67 according to DIN EN 60529

**Properties**
- Battery case on the interior side of the cylinder (B-side) including powerful batteries with long service life
- Electronically controlled from both sides
- Easily adjustable cylinder cam
- Delivery incl. lithium cells
- Up to 120,000 lock operations or up to 10 years on stand-by
- Protocol function with date and time
- Minimum length: 30.7 mm / 32.4 mm

|  | A (in mm) | B (in mm) |
|---|---|---|
| Basic length | 30,7 | 32,4 |
| available extension | 35 | 35 |
|  | 40 | 40 |
|  | ⋮ | ⋮ |
|  | +5 | +5 |

A = outer side of door  |  B = inner side of door  |  All measurements in mm

## Single cylinder
## type BO 02

**Areas of application**
- Indoors
- VdS-environment class II and IP54 according to
  DIN EN 60529 between +5 °C and +55 °C
- Key operated switch, switching mechanisms, lift switch,
  emergency terminal

**Properties**
- Electronic control
- Easily adjustable cylinder cam
- Delivery incl. lithium cells
- Up to 10,000 lock operations or up to
  6 years on stand-by
- Protocol function with date and time
- Minimum length: 30.7 mm
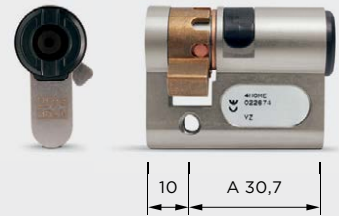
| | A (in mm) | |
|---|---|---|
| Basic length | 30,7 | |
| available extension | 35 | |
| | 40 | |
| | ⋮ | |
| | +5 | |

## Single cylinder
## type BO 22

**Areas of application**
- Highly frequented doors
- Switching systems and elevator switch
- Inside and outside
- VdS environment class IV between -25 °C and +65 °C
- IP67 according to DIN EN 60529

**Properties**
- Electronic control
- Easily adjustable cylinder cam
- Delivery incl. lithium cells
- Up to 120,000 lock operations or up to
  10 years on stand-by
- Protocol function with date and time
- Minimum length: 32.4 mm

| | A (in mm) | |
|---|---|---|
| Basic length | 32,4 | |
| available extension | 35 | |
| | 40 | |
| | ⋮ | |
| | +5 | |

## Knob cylinder
## type BO 04

**Areas of application**
- High-traffic doors inside and outside
- Avoid condensation on knob side
- VdS environment class III and IP54 accordin to DIN EN 60529 between -25 °C and +65 °C

**Properties**
- Electronically controlled from one side
- Easily adjustable cylinder cam
- Doorknob: made of plastic
- Delivery incl. lithium cells
- Up to 120,000 lock operations or up to 10 years on stand-by
- Protocol function with date and time
- Minimum length: 30.7 mm / 30.7 mm

A 30,7    B 30,7    45    ø 48

|  | A (in mm) | B (in mm) |
|---|---|---|
| Basic length | 30,7 | 30,7 |
| available extension | 35 | 35 |
|  | 40 | 40 |
|  | ⋮ | ⋮ |
|  | +5 | +5 |

## Padlock
## type BO 85

**Areas of application**
- Medicine cupboards, filing cabinets, containers
- Inside area at +5 °C to +55 °C
- IP54 according to DIN EN 60529

**Properties**
- Electronic control
- Steel bow, 28 mm high
- Shackle and housing made of stainless steel
- Delivery incl. lithium cells
- Up to 10,000 lock operations or up to 6 years on standby
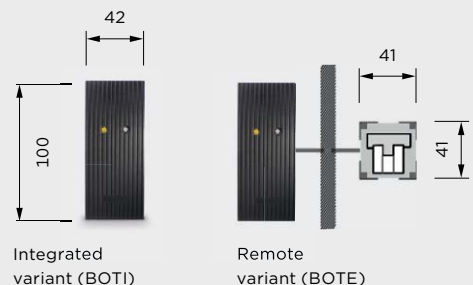- Protocol function with date and time

30    ø 8    28    60    55

## blueSmart
## Wall reader

**Areas of application**
- Indoors as an integrated variant or outdoors as a separate variant
- Reader unit temperature range: -25 °C to +70 °C (integrated version 0 °C to +50 °C)
- Control unit temperature range: 0 °C to +50 °C
- Reader unit: IP54 according to DIN EN 60529

**Properties**
- Power consumption at 12 V DC max. 200 mA
- Supply voltage: 7 V to 25 V DC or 10 V to 18 V AC, 50 Hz
- Switching current: max. 1.5 A @ 20 °C
- Switching voltage: max. 30 V DC, 20 V AC, 50 Hz
- Length-variable connection cable between Reader and control unit (max. 100 m, scope of delivery: 4.5 m)
- Assembly of control unit in flush-mounted housing

42    100

41    41

Integrated
variant (BOTI)

Remote
variant (BOTE)

A = outer side of door  |  B = inner side of door  |  All measurements in mm

# Measure and remove the cylinder

Suitable locking cylinders must be selected to use the blueCompact system. The correct cylinder dimensions must be recorded in advance in order to define the correct size. These can be determined in two ways:
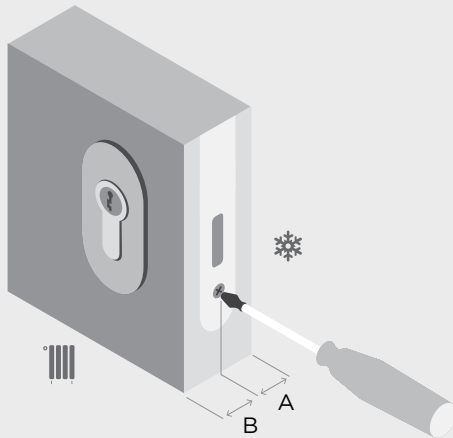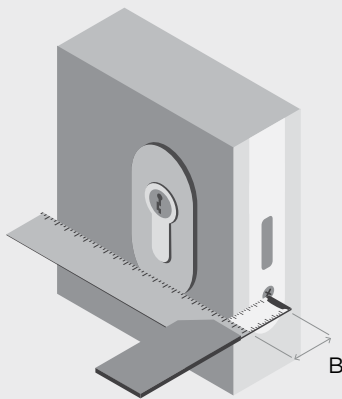
Step 1:
Remove the cylinder
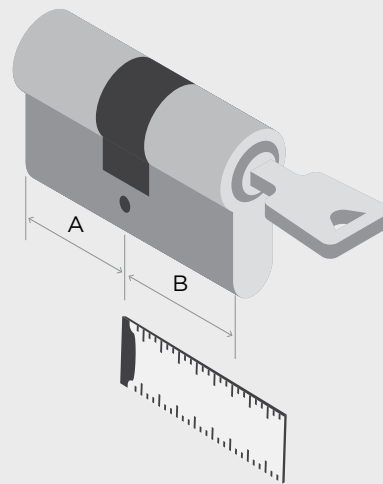
Step 2:
Measure the cylinder
A = outer side, B = inner side

## Measure the existing removed cylinder

To remove the existing cylinder, insert the key in the locking cylinder and turn slightly to bring it to bring the locking cam to a vertical position (neutral position). Then use a screwdriver to loosen the face plate screw. Because the key is locked, the cylinder can now be loosened from the lock. If the cylinder is stuck, carefully jiggle with the key and pull the cylinder out.

To determine the dimensions of the cylinder, use a folding rule to measure the distance between the cylinder edge and the centre of the hole. Carry out this process on both the outer (A) and the inner side (B) and note down the values. Take care not to mix up the inner and outer side.

Step 1:
Measure the inner distance
B = inner side
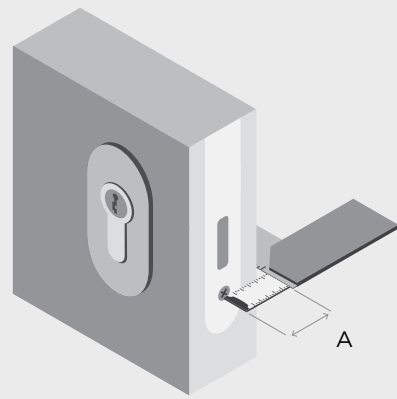
Step 2:
Measure the outer distance
A = outer side with max. projection length of 3 mm.

## Determine cylinder length by measuring the door

To determine the inner dimension (B), place a try square on the plate on the inside and measure the distance between the try square edge and the centre of the face plate screw drill hole. Note down this value and do the same on the outer side.
Here too: take care not to mix up the inner and outer side.

## Can a cylinder protrude?

A locking cylinder must not protrude from the plate by more than 3 millimetres. If the projection is too large due to an incorrect cylinder length on the outside, there is an increased risk of break-in.
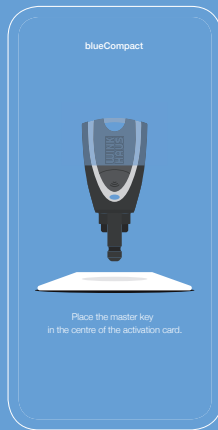
# The simplest way
# to full control

With the blueCompact app, you have your lock-
ing system firmly and securely under control at all
times. It is highly user-friendly thanks to a clearly
arranged, simple operation system. The free
„blueCompact" app is now available from the
App Store in an iOS version (iOS 9 or higher) or
from Google Play Store for Android™ devices
(version 5.0 or higher). Smartphones must
feature Bluetooth 4.0 or higher.

WINK HAUS
blueCompact

blueCompact

Place the master key
in the centre of the activation card.

blueCompact

Watch blueCompact introduction.
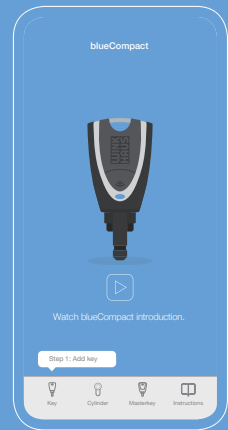
Step 1: Add key

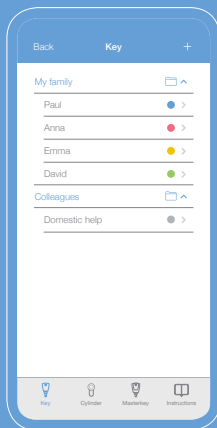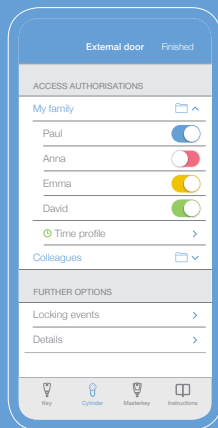| Key | Cylinder | Masterkey | Instructions |

Click to
launch app.

Activate the system
in seconds.

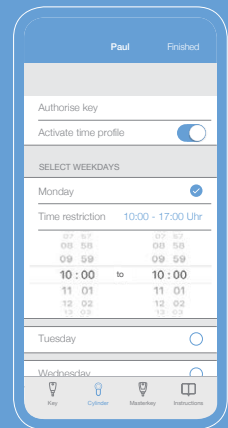All functions are explained
step by step.

Back    **Key**    +

My family
Paul
Anna
Emma
David
Colleagues
Domestic help

| Key | Cylinder | Masterkey | Instructions |

External door    Finished

ACCESS AUTHORISATIONS

My family
Paul
Anna
Emma
David
Time profile
Colleagues

FURTHER OPTIONS

Locking events
Details

| Key | Cylinder | Masterkey | Instructions |

Paul    Finished

Authorise key
Activate time profile

SELECT WEEKDAYS

Monday
Time restriction    10:00 - 17:00 Uhr

07  57          07  57
08  58          08  58
09  59          09  59
**10 : 00**   to   **10 : 00**
11  01          11  01
12  02          12  02
13  03          13  03

Tuesday
Wednesday

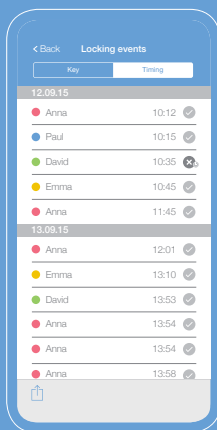| Key | Cylinder | Masterkey | Instructions |

Each key and cylinder
under your control.

Issue or withdraw
authorisations instantly.

Create individual time
profiles easily.

< Back    Locking events

Key        Timing

**12.09.15**
● Anna       10:12
● Paul       10:15
● David      10:35
● Emma       10:45
● Anna       11:45
**13.09.15**
● Anna       12:01
● Emma       13:10
● David      13:53
● Anna       13:54
● Anna       13:54
● Anna       13:58

Masterkey

Battery              90%
Firmware version   BOR00303
Number of cylinders   6/25
Number of keys       20/99

| Key | Cylinder | Masterkey | Instructions |

Instructions

Installation
Operation
Battery change
Distance restriction
Lost component
Expansions

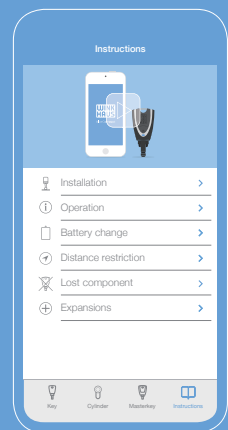| Key | Cylinder | Masterkey | Instructions |

All locking events
clearly in view.

Manage the entire system
really easily.

Different tutorial videos
can be viewed at any time.

## Engineered in Germany

Winkhaus has been impressing customers with innovative products since 1854. In our development centres in Germany, Winkhaus engineers are delivering outstanding technical developments in the field of window and door technology. Here visions become reality. So you can be certain that each and every of our products is made with outstanding German engineering skill.

**bluecompact.com**