



# Biometrics

Unique, simple,  
convenient

dormakaba 

# Why biometrics?



## Your benefits at a glance

- Simple, secure, convenient operation
- Unique personal identification
- Biometric features cannot be forgotten, lost, stolen or passed on to third parties
- No "buddy punching"
- Legal security – who identified themselves when
- Data protection – fully guaranteed thanks to non-reconstructible fingerprints
- Cost savings
  - Fewer erroneous bookings and therefore fewer corrections
  - No badges and no badge administration
- Simple integration into existing systems



Time & attendance



Access control

**Would you like to bring in unique employee identification? Increase security and cut costs at the same time? If so, biometric data collection from dormakaba is just what you need.**

Biometric methods have now become established in time registration and access control. They are technically mature and guarantee trouble-free use in practice. dormakaba became involved with biometrics at an early stage and now has in-depth knowledge of the development and application of biometric solutions. From the large number of possible biometric identification features – finger, veins, hand, iris – dormakaba has decided in favor of finger recognition. Compared with other technologies, data collection using fingerprints is characterized by effective detection performance combined with a high level of security and maximum user acceptance. This comes as no surprise. After all, the collection process is simple and fast – a brief touch of the sensor with the finger is all it takes.

dormakaba offers a broad range of biometric products. We can provide you with all the latest data collection terminals with biometric sensors: The choice is yours.



## **Biometrics – Unique personal identification**

Simply place your finger on the sensor - job done!

As convenient as it gets.



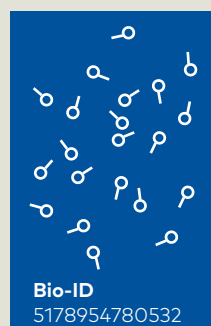
# How does biometric finger recognition work?

**Using a finger instead of a badge to identify persons in a unique and legally binding manner, but how exactly does it work?**

The concept is easy. The biometric reading unit creates a unique recognition template based on distinctive features of the fingertip. This involves a mathematical description of position coordinates. This template is stored in a one-off enrollment process as the unique

reference for the person. No visual fingerprint is reproduced from this reference template. Two different fingers are always registered in order to guarantee reliable recognition at all times. If an employee wishes to identify themselves at a terminal, they place their finger on the sensor. The finger is compared with the stored reference template. If this tallies, the time or access booking is carried out.

The recognition concept



Reference sample

```
101101001101010  
10010110100101  
101010101010011  
01011010010010  
111001011010101  
110101001101110  
01101000101001  
01100101100101  
00101110011001  
101001011001011
```

Bio-ID  
5178954780532



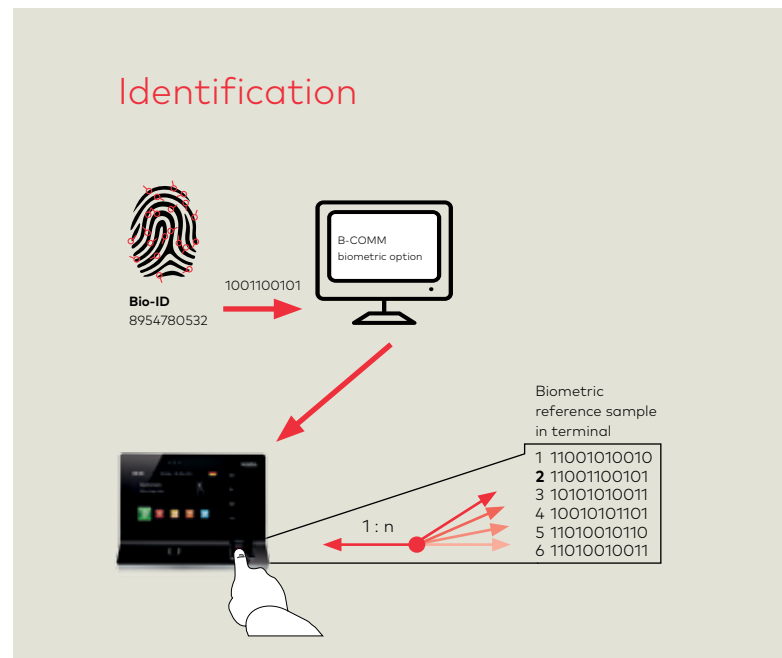
# Two different methods: Identification or verification

Would you like to bring in biometric identification and do away with badges completely? Do you already use badges but would like to increase security in your company using a biometric method? dormakaba offers you both the identification and the verification method. Both methods have their advantages.

## The identification method

With this method, the reference templates are stored in the collection terminal. If an employee places their finger on the sensor, a so-called 1:n comparison is made. This means that the finger is compared with all reference templates allocated to this terminal. If this tallies, the time or access booking is carried out.

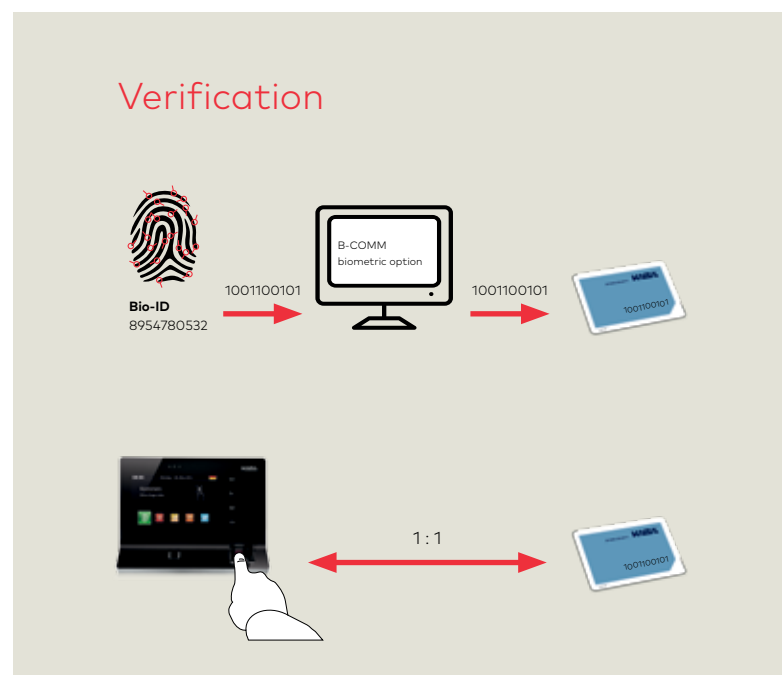
With this convenient, badge-free method, each person identifies themselves solely with their fingerprint. This offers the advantage that costly badge management is no longer required. A further advantage is that the fingerprint is always there and cannot be forgotten or stolen.



## The verification method

With verification, the personal reference template is stored on the employee's badge. If a person places their finger on the sensor, a 1:1 comparison is made, in contrast to identification. The reference template is first read from the badge and is then compared with the finger that has just been placed. If the two features tally, the time is recorded or the access granted.

Verification not only represents a very fast and secure type of recognition, but can also be used in countries where strict data protection regulations apply. The employee is responsible for retaining the personal biometric data. No further storage or distribution of these data is required.



# Latest dormakaba products for your biometric solution



## Kaba terminal 97 00

With the high-tech Kaba terminal 97 00, all employees in the company can obtain information more quickly, communicate more easily and therefore save time. The terminal serves as a central communication point in the company. It performs a wide range of tasks relating to professional time recording, access control, communication and information provision. Along with standard functions such as in, out, official absence and inquiry, further customized functions can be used via "Apps" or by opening a web browser. The functions can be selected via the scratchproof, 7" color touch screen and appear in brilliant quality behind the high-quality glass surface.



## Kaba biometric reader 91 50

The compact Kaba biometric reader 91 50 guarantees unique personal identification and increases your company's security. The combination of a high-quality, optical biometric sensor, an optional LEGIC advant reader and a capacitive keypad meets all the requirements for a viable recognition system. The reader is certified to protection class IP54 and can also be used for building security in the weatherproof outdoor area.



## Data collection terminals B-web 93 00 and B-web 95 00

The B-web 93 00 and B-web 95 00 series terminals have proven themselves in practice. With the biometrics option and the "Guide by Light" operating concept, they are intuitive and reliable to operate. This increases convenience, reduces erroneous input and subsequent corrections.

The terminals are easy to install and can be adapted and extended precisely in line with your requirements.

## USB reader for central enrollment



## Enrollment station MSO 1300

With the MSO 1300, an employee's finger reference pattern can be reliably captured with any PC. This then enables the easy distribution of reference patterns to the relevant booking terminals. The enrollment station is ideally suitable for smaller companies or chain stores with a total number of max. 200 employees.

## Enrollment station MSO 300

A premium enrollment station that meets the highest quality standards. Ideal for larger enterprises, also for use with people having less defined finger minutiae to ensure maximum system performance.

# Company-wide use of a dormakaba biometric solution



## Data protection – and what you need to know about it

Personal data must be collected and processed in accordance with legal data protection requirements. Do I maintain responsibility for my personal data? Will my fingerprint be stored and possibly even passed on? These are valid questions from employees and are taken very seriously by dormakaba.

It is important to know that the method used by dormakaba does not store any fingerprint image, but only an anonymous, mathematical reference template. The personal features of the fingertip are vectorized and converted into a complex numerical code. The relevant personnel number is allocated to this value. A fingerprint image cannot be reproduced under any circumstances. Misuse of personal employee data by third parties is therefore avoided. If an employee still has concerns, he can alternatively enter his personal identification number (optionally with additional PIN) via the keypad.

dormakaba offers comprehensive consultancy to your project manager or data protection manager, so that your biometric system can be seamlessly introduced.

In many cases, enrollment of persons is carried out centrally in the company's human resources department. The reference templates are then distributed to the terminals throughout the company. In companies with global operations, enrollment can be carried out at different locations. In this case, each location has its own biometric administration, but this is connected to the centrally installed server. Local enrollment using the collection terminal directly is also possible if, for example, ad-hoc enrollment of new employees is required in a branch office.

All of this is already taken into account in the biometric collection system from dormakaba:

- system-wide biometric administration
- central collection for the one-off enrollment of the reference template
- intelligent administration and distribution of biometric data to all connected terminals, including different locations
- integration and operation of biometric terminals together with existing installed terminals

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