

dormakaba biometric reader

91 50



Advantages at a glance

- Biometric identification or verification and optional PIN code entry
- Integrated multi-RFID-reader
- Capacitive touch keypad
- High-quality biometric sensor
- Automatic activation by proximity sensor
- Easy system integration

The dormakaba biometric reader 91 50 fits perfectly into modern access control solutions. It combines the established identification methods RFID and fingerprint with an easy to operate touch keypad. Connected to a dormakaba access manager, the biometric reader guarantees a legally secure and unique person based data collection.

Identification

In identification mode, finger templates are transferred into the reader after the enrollment. During the booking operation, the presented finger is looked up in the reader database and the person is identified. Since badges are not in use, this mode is ideally suited in areas such as the food industry, where cards and key tags are often forbidden. In areas with a high fluctuation of personnel it reduces the time and costs for card management.

Verification

In verification mode, finger templates are saved on the staff cards. During the booking operation, the presented finger is compared with the template on card and the person is authorized. The check of card and finger guarantees highest identification reliability. In this mode the number of people that use the reader is unlimited. Places of use are access points with increased security requirements and in countries where a central storage of data is not permitted.

Operating modes

Biometric identification or verification (finger or ID comparison) and optional PIN code entry.

Sensor

The fingerprint sensor used is the proven CBM module by IDEMIA with a large scan window and excellent identification algorithm, which guarantees quick and dependable identification. An adjustable FAR (False Acceptance Rate) of up to $1:10^{-8}$ guarantees high security. The sensor is dust and waterproof and resistant to electrostatic discharge (ESD). To meet higher requirements a FIPS/FBI certified version of the sensor is available.

Versions

In the standard version, 1,000 finger templates can be stored in the reader; up to 10,000 are possible as an option. This corresponds to up to 5,000 employees, each with two fingerprints. An optional, integrated multi-RFID-reader (LEGIC/MIFARE) guarantees maximum flexibility for biometric verification or alternative ID entry.

User interface

The operating and authorization statuses are signaled to the user via the illuminated dormakaba RFID reader symbol and a buzzer. The automatic activation of the fingerprint sensor by a proximity sensor ensures intuitive and time-saving operation.

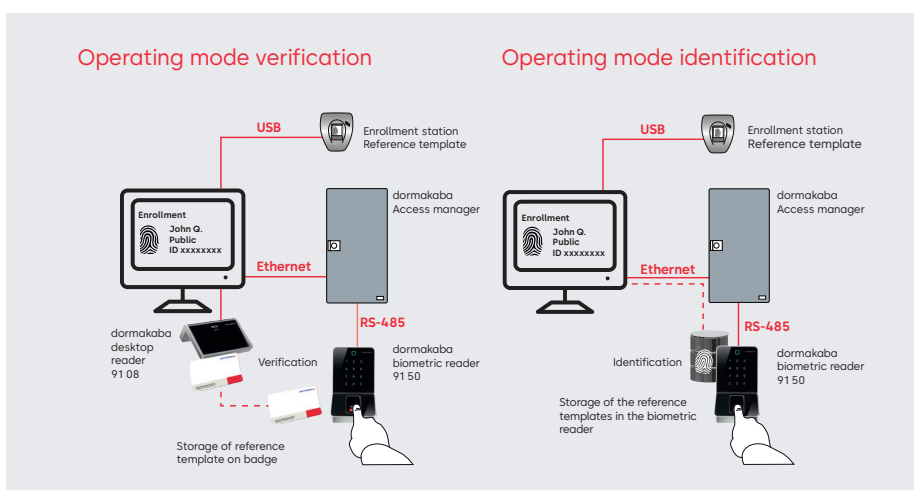
Keypad

The biometric reader is equipped with durable and wear-free capacitive keypad so that people with less defined biometric features can also enter their ID/personnel number for identification. The keypad also offers the option to enter a PIN code to increase security level, if required.

Compatibility Investment protection

Compatibility with previous terminal series makes it possible for you to run mixed operations with dormakaba systems already installed and any extensions. High quality components, a long product lifecycle and part of a customised overall solution guarantee a high investment protection.

Remark: The effective functions available of the product depend on the system context in which it is used.



Technical Data

Power supply

- 24 V AC /DC via access manager or external power supply unit
- current consumption: maximum 170 mA with active sensor

Interfaces

- RS-485: serial subpartyline to connect to dormakaba access managers
- I/Os: 2 digital inputs, 1 relay output (30 V AC/DC) and tamper contact for detecting and reporting tampering attempts

Environment

- ambient temperature: -15°C to $+50^{\circ}\text{C}$, no direct sunlight
- relative humidity: 5 % – 85 % non-condensing
- protection class according to IEC 60529: IP54 (Version for on wall cabling is IP30 only), IP65 optionally

Housing and installation

- compact plastic housing for on-wall installation; concealed cabling
- optional version for on-wall cabling
- installation indoors or sheltered outdoor areas
- colour: black/white aluminium (RAL 9005/9006)

Dimensions

- (Width x Height x Depth)
- 85.5 x 152.5 x 70.5 mm (concealed cabling)
- 85.5 x 152.5 x 77 mm (on-wall cabling)

Further details and order information can be found in the relevant dormakaba catalogues or system descriptions.

Subject to change without notice.
© 2023 dormakaba. Version 07/2023

Any questions?

We would be happy to answer any questions you may have.