dormakaba

dormakaba RFID badges
Efficient access control

Advantages at a glance

- **Versatile applications**
  RFID cards can be used for access control, time recording, printer contolling, making payments, as employee badges and much more.

- **High level of data security**
  Our special data encryption makes your system secure.

- **Efficient media management**
  Administer the RFID media within your access contol and assign access rights efficiently.

- **Customisation**
  Design your RFID media according to your wishes: with company logo, picture, personnel number or other labels.

RFID for your security

Access control plays a key role in protecting properties, buildings and premises for organisations and users. dormakaba provides a diverse range of badges that use proven RFID (radio frequency identification) technology.

In addition to the popular smart cards, key fobs with RFID also serve as user-friendly access media. dormakaba designs and encrypts these products according to your requirements and wishes.

Proven RFID technology

RFID cards and key fobs contain a chip that enables data to be read and written over short distances using a contactless process. The chip draws the power required for communication and data processing from the magnetic field of the read/write device. The RFID chip does not require a separate power supply and is completely maintenance free. RFID technology is fully developed and complies with international standards.

Typical RFID applications

Such smart cards are used across all sectors and in companies both small and large – wherever objects must be identified or access control is required for employees. The active read/write device reads and decodes the data transmitted by the passive RFID chip.

People can easily be equipped with an RFID access medium that allows them to access the assigned premises and areas. RFID badges are particularly robust and cost-effective due to their straightforward design.

Factsheet

Versatile solutions and areas of application

Versatile use of RFID cards

Apart from electronic access control, RFID can also be used for precise time registration. The operating principle is quite simple: employees hold the badge against the electronic door lock at the building entrance and identify themselves.

Once inside the building, they hold the badge towards the time recording device to book in the start of their working day. Afterwards, the same card can be used to start their notebook, operate a printer or pay for a coffee from a vending machine. This user-friendly handling makes RFID cards convenient and easy to handle in daily use.

Additionally, the company can customise their badges to visually identify certain groups of people, e.g. by using specific colours to identify visitors or service providers.

Your areas of application
- Access control
- Time recording
- Printers, copiers
- Payment method, e.g. at beverage vending machines
- Tickets
- Key cards in hotels and much more

Our services
- Consulting
- Media analysis for integration of existing badges
- Media definition/encoding
- Management of production data
- Production of media
- Individualisation

Encoding

The data on RFID cards must be encrypted to ensure that they can be used securely. The user's access rights, credit balance and log data are encoded according to their specific application. Access administration is vital for applications connected to sensitive data and access to security-relevant areas. As a result, reliable encoding and encryption of information is crucial. dormakaba can encode all RFID cards according to your requirements. We would be happy to advise you on suitable and future-proof encoding. Alternatively, we can perform this process for you using our own production database in case of a system replacement or expansion.

Scalable security of current RFID technologies

Thanks to central key administration and distribution, RFID badges offer particularly high security standards. For the purpose of identification, our badges and read/write devices have matching security encryption that are not accessible. The renowned brands LEGIC and MIFARE use this technology.

Function verification and device status

If your access system runs with offline devices, you can easily transmit the log data of your electronic locking cylinders, door fittings, access readers or time and attendance terminals into the system using the RFID media. You can transparently document access events if you need a functional verification and are kept informed about relevant status data, like a low battery of the electronic door lock.

Simplified registration of RFID cards

In some access apps and systems, RFID cards can be scanned using a QR code for easy registration so that there is no need for additional desktop readers.

Custom labelling and a choice of colours

You can customise your RFID cards and key fobs, for instance by adding personnel numbers or pictures. Labelling is carried out using a printer or laser. Our key fobs are available in a range of colours.

Flexible access control migration

Access control and RFID technology are continuously evolving. Current systems need to fulfil higher safety requirements and have greater memory capacity for new applications. RFID badges and electronic door locks can be migrated in various ways. When doing so, it is important to precisely define the requirements for the new system environment. This way, the necessary measures and technologies for the process of data transfer and subsequent operation with the new access media can be determined.

Our RFID cards and key fobs

RFID cards

- High-quality PVC card in dormakaba design or blank/white for custom printing.
- Dimensions: 85.6 x 54.0 x 0.78 mm (+/− 0.08 mm) in line with standard ISO/IEC 7810 type ID-1
- Customisation: Logo, text, picture, number with offset print/screen print

RFID card, customisable

RFID key fobs

Affordable all-rounder made of impact-resistant polycarbonate.

- Colours: blue, black, red and others upon request
- Dimensions: ø 32 mm, thickness 4.8 mm, length 41 mm
- Customisation: Logo, text, number with black laser engraving, coloured digital print or laminated digital print on the front side

Elegant, glossy with slightly curved surface finish. Solid, tear-resistant stainless-steel frame. Impact-resistant polycarbonate cover.

- Colours: black, blue, white, transparent and others upon request
- Dimensions: ø 37 mm, thickness 7.7 mm, length 42.1 mm
- Customisation: Logo, text, number with black laser engraving, coloured digital print
- Special features: Waterproof to IP65, metallic detectable frame

RFID key fob, design budget

Robust matt, flat surface, ability to apply QR codes. Solid, tear-resistant stainless-steel frame. Impact-resistant polycarbonate cover.

- Colours: white and others upon request
- Dimensions: ø 36.5 mm, thickness 5.2 mm, length 45 mm
- Customisation: Logo, text, number with black laser engraving, coloured digital print
- Special features: Waterproof to IP65, metallic detectable frame

RFID fob, design shine

RFID tag, design plain

Our diverse portfolio

- Classic RFID cards in credit card format (ISO/IEC 7810)
- RFID key fobs in several designs
- Proven technologies from LEGIC and MIFARE
- Encrypted data for secure applications
- Security solutions for key management
- Expert advice on all aspects of our media range

Technical data

Supported RFID technologies

- LEGIC CTC (prime/advant)
- LEGIC advant
- MIFARE DESFire EV3
- MIFARE classic
- Others upon request

Supported standards (depending on transponder)

- ISO 14443A
- ISO 7816

Technical information

- Frequency: 13.56 MHz
- Temperature: −20 °C to +70 °C
- Compliant with RoHS & REACH

The scope of this product's functions depends on the system environment selected.

Please find further details and relevant information in the dormakaba catalogues or in the system description.

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