ACCESS200

RFID | NFC | Bluetooth®
Multifrequency access control reader

ACCESS200 is the flexible all-round solution for access control: All the features you expect, highly customizable, and easy to update – even later in productive use.

Adaptable look

- The ultra-flat, semi-translucent housing can be adapted to your design requirements by applying a front sticker of your choice: Stickers in silver, white, and anthracite are included – alternatively, you can order individually designed stickers from us.

- 4 multi-color LEDs offer a wide range of colors to choose from. With a few clicks in the configuration, you can adjust intensity, make LEDs pulse, or enable smooth transitions between colors.

- To support color-blind users, you can optionally illuminate only the right or left side of the housing

Durable hardware

- Keypad version with ultra-rugged capacitive keypad
- Potted version (rated IP55) for outdoor use or harsh environments

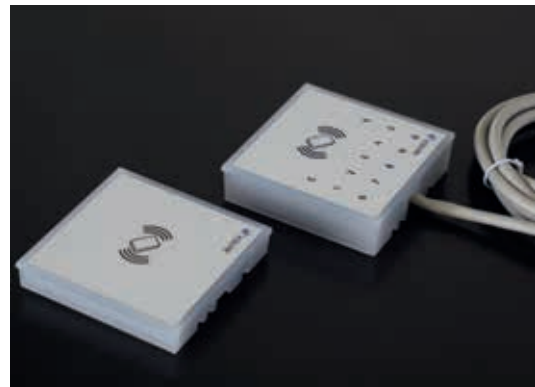### Easy installation, even in difficult environments

- Mount the reader on a single-gang box or directly on the wall. A special wall-mount base is optionally available.
- Interference-free operation on metal surfaces – you can even mount the reader flush into metal.
- Indoor version with convenient plug-in screw terminal block, potted version with pigtail cable
- Easily switch from Wiegand to OSDP or another bus protocol: Just present a BALTECH AdrCard to the reader to assign a bus address.
- For detailed installation instructions, please visit docs.baltech.de/install

Monitoring independent of host interface

- Tamper alarm and heartbeat/alive messages not only via OSDP, but also configurable for Wiegand

Uncomplicated updates

- Firmware and configuration updates via USB, OSDP, or NFC
- The configuration can also be updated with BALTECH ConfigCard.

What all BALTECH readers have in common:

- **Comprehensive RFID support**
  All common card systems and key fobs

  Learn more in the data sheet „Supported card types".

- **Autonomous operation – highly customizable**
  Configure RFID and host interface, check routines, and I/O behavior with our software tools – no expert knowledge needed.

- **Card-type-independent command set „VHL"**
  Develop custom applications with minimal effort.

- **Custom hardware and firmware development**

  Learn more in the data sheet "Cross-product properties".

Technical data

Mechanical

Dimensions	82 x 82 x 14 mm (x 21 mm with optional wall mount base)
Weight indoor version	11 g net, 50 g incl. packaging
Weight potted IP55 version incl 1.8 m pigtail cable	160 g net, 200 g incl. packaging
Housing material	Translucent PMMA Altuglas, UV-resistant
Front sticker	Automotive grade high-quality durable sticker White/silver/anthracite included; customizable

Power supply

Supply voltage	7...30 VDC
I max. supply current	7 V: 300 mA; 12 V: 165 mA; 30 V: 80 mA (beeper, relay, LEDs 100% ON)
I typ. supply current	7 V: 110 mA; 12 V: 65 mA; 30 V: 30 mA

User interface

LED	4 x RGB LEDs Red/Green/Blue/+Mix Configurable color and intensity, left/right split
Beeper	2700 +/- 300 Hz
Relay	30 V 1 A

Environmental

Operating temperature	-40...+60°C (-25...+60°C for 10119 product line) Wider temperature range on request
Operating humidity (rel.)	5...90% non-condensing
Environmental rating	IP55 for potted versions, article# 10097-xxx-03, -04; 10119-xxx-03, -04
MTBF	100,000 h

RFID interface

13.56 MHz	Read range: 15...80 mm typ; Field strength: 15 mm @ Hmin = 1.5 A/m, 70 mm @ Hmin = 0.15 A/m Standards: ISO 14443 A/B, ISO 15693, NFC Optimized for key fob compatibility and metal mounting insensitivity
125 kHz	Read range: 20...80 mm typ; Standards: LF 125 kHz ASK, FSK, PSK
Mobile ID/Bluetooth Low Energy v4.2	Read range 0.2...15 m, adjustable; BALTECH protocol based on Bluetooth Low Energy for BALTECH Mobile ID (smartphone app for access control etc.; learn more in the data sheet „Mobile ID" und at docs.baltech.de/mobile-id-overview) Low-level access for the development of custom applications on request
RFID scan duration	Full sequential cycle 450 ms (multi-frequency product line)

Host interfaces

Out of the box	USB, RS-485 (OSDP V1 and V2, custom protocols), Wiegand
On request	UART/RS-232, Magstripe emulation, etc.

More details

For more technical data, please visit docs.baltech.de/access200

For an overview of standard variants and prices, refer to the ACCESS200 price list.