

BKT ACS

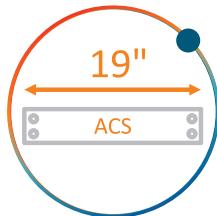
access control system



BKT ACS access control system

- A system limiting access to individual cabinets and kiosks for a specific group of users.
- Events logging that unambiguously indicates who gained access, to which cabinet, and when.
- Logging and alarming of intrusions, e.g. attempts to open the door by force.

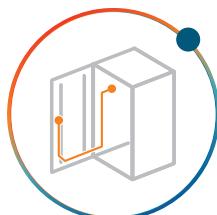
Easy to install



The devices are designed to be mounted in a 19" rack. Their height is 1U.



Thanks to RJ45 connectors, connections to the controller are quick and easy.



The BKT 4DC cabinets are available in a version adapted to the installation of access control devices. They have suitable slots for the reader and dedicated cable routes in the door.

Scalability



Supports an unlimited number of users.



Supports an unlimited number of cabinets.

Safety and versatility



The system can send e-mail notifications about any selected event.



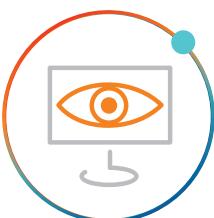
Event archiving in MS SQL or MS SQL compact server database for small installations.



Encrypted Ethernet and RS485 bus-based communication.



Independent monitoring of door status and door handle and lock cylinder status.



Online monitoring of the system through the free VISO ST application.



Depending on the system, readers can have an integrated keyboard or can be integrated into the cabinet handle. It is also possible to use any reader with Wiegand interface.



Possibility of autonomous system operation - without connection to a computer. In this case, all events are stored in the controller's internal memory and will be sent to the computer the next time the controller is connected.



Supports cards of different standards depending on the reader used.

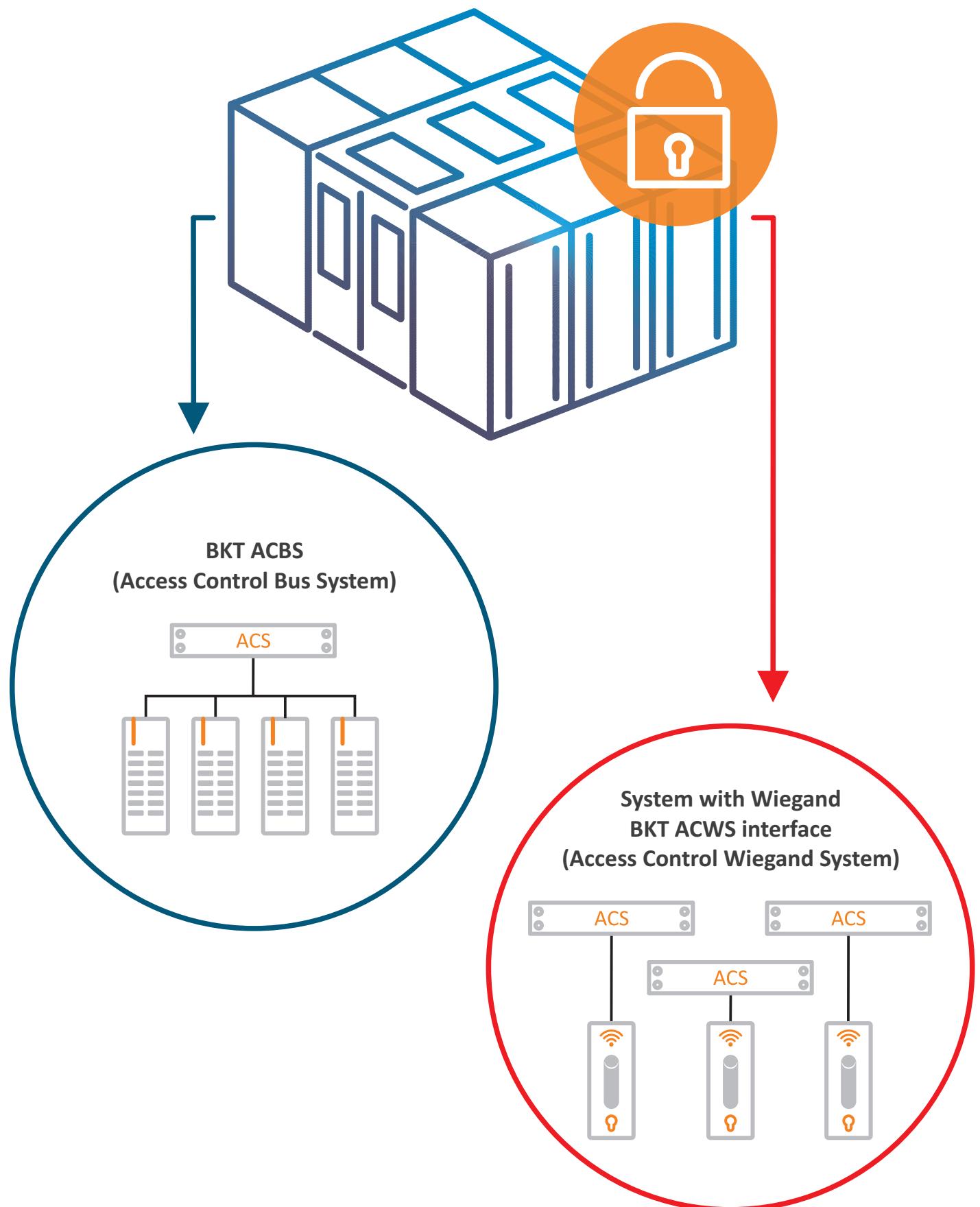
The system may grant access to the door after approaching the card or entering the PIN code (or it may require these two activities at the same time). It is also possible to configure a so-called group entrance, when two users have to place the cards by the reader to open the door.



The devices of the system meet the requirements of protection grade 2 of EN 60839-11-1:2013 standard.

BKT ACS access control system

The BKT ACS access control system is available in two variants



Substantial differences between systems

	System structure	Interface between controller and reader	Supported proximity card standard	Possibility to connect a handle with an integrated AL301 reader	Possibility to connect any reader with Wiegand interface	1 controller (1 IP number) for multiple cabinet doors	Solution may be more price attractive
BTC ACBS Bus system		RS485 bus	UNIQUE 125kHz or Mifare 13,56MHz (Ultralight i Classic)	✗	✗	✓	✓
BKT ACWS System with Wiegand interface		Wiegand	Any standard depending on the reader	✓	✓	✗	✗

BKT ACBS bus system - system elements

AC101-AC116 - system controllers

- The controller is the basic device of the system. Depending on the version, it supports from 1 to 16 doors.
- The controller is housed in a 1U enclosure, adapted to be mounted in a 19" rack.
- Controller enables connection of two door hot/cold aisle containment sensors, two door readers, additional reader for sliding door of the kiosk, LAN network and RS485 bus connecting slave sets. All connections to the controller are made with cables with RJ45 connectors.
- Pull-out drawer of the controller housing enables easy access to the connections. There is also space for a small excess of cables.
- The controller has three configurable LEDs, which, for example, can indicate the presence of power supply and the status of the the status of the cabinet front and rear doors.

ACBS BUS



AB101 - Slave set for 2 doors

- The set includes a connection system for 2 door control units.
- It is housed in a 1U enclosure, adapted to be mounted in a 19" rack.
- The set cooperates only with AC101-AC116 controllers.
- Designed for installation in subsequent cabinets.
- It enables connection and power supply of two card readers, two door sensors, possible additional reader for hot/cold aisle containment sliding door and RS485 bus connecting with the system controller. All connections to the set are made with cables with RJ45 connectors.
- A pull-out drawer of the set enclosure enables easy access to the connections. There is also space for a small excess of cables.
- It has two configurable LEDs, which, for example, can indicate the status of front and rear doors of the cabinet.



BKT ACS access control system

BKT ACBS bus system - system elements

ACBS BUS

Readers

- AR121- Unique 125kHz card reader with keypad to control the cabinet door lock.
- AR122- Unique 125kHz card reader with keypad for sliding door control.
- AR131- Mifare 13.56 MHz card reader with keypad to control the cabinet door lock.
- AR132- Mifare 13.56 MHz card reader with keypad for sliding door control.



Handle

- AL300- Cabinet handle with electric control and monitoring with the possibility of opening by key.
- Standardized 150x25mm mounting hole.
- Monitoring of handle state and possibility of transmitting information to the access control system.
- Possibility of opening the lock with a key in case of power failure.



Sensors

- AD101-Reed relay sensor for single-leaf doors with 5m cable.
- AD102-Reed relay sensor for double-leaf doors with a 5m cable.
- Normally open (NO) sensors.
- 5m long cable terminated with RJ45 plug for connection to the controller.
- The set includes metal brackets fixing the reed switches to the cabinetry frame.

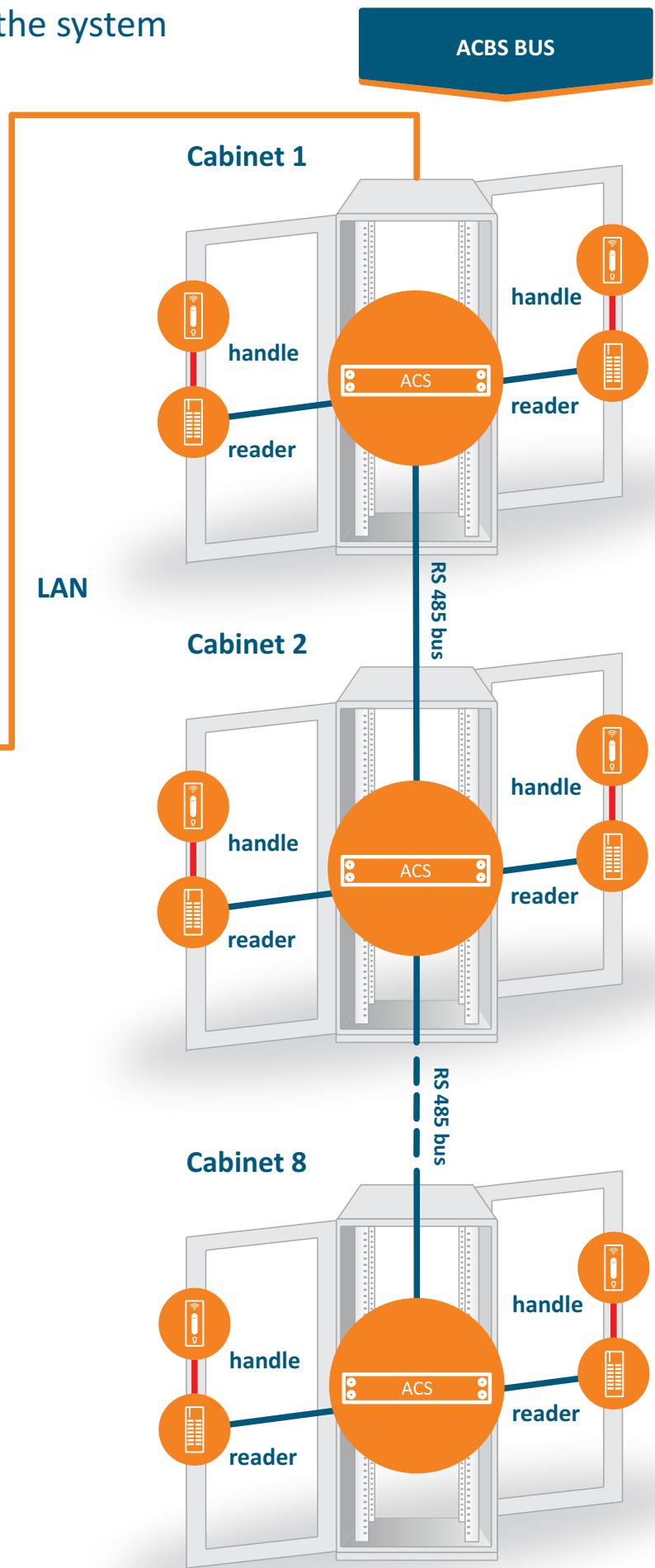
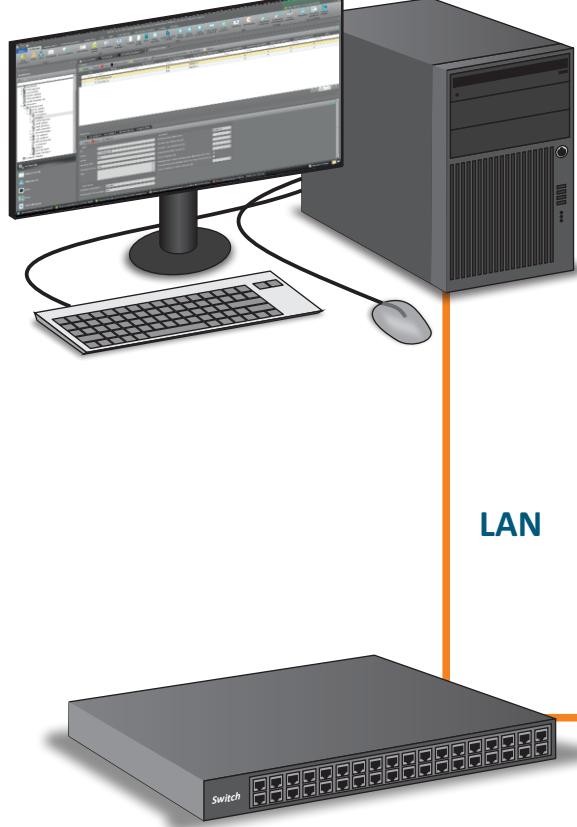


Dedicated wiring

- AW111-Dedicated cable for connecting the reader to the controller.
- AW112-Dedicated cable for connecting the reader to the lock.
- AW113-Dedicated cable for connecting the reader to the sliding door controller.



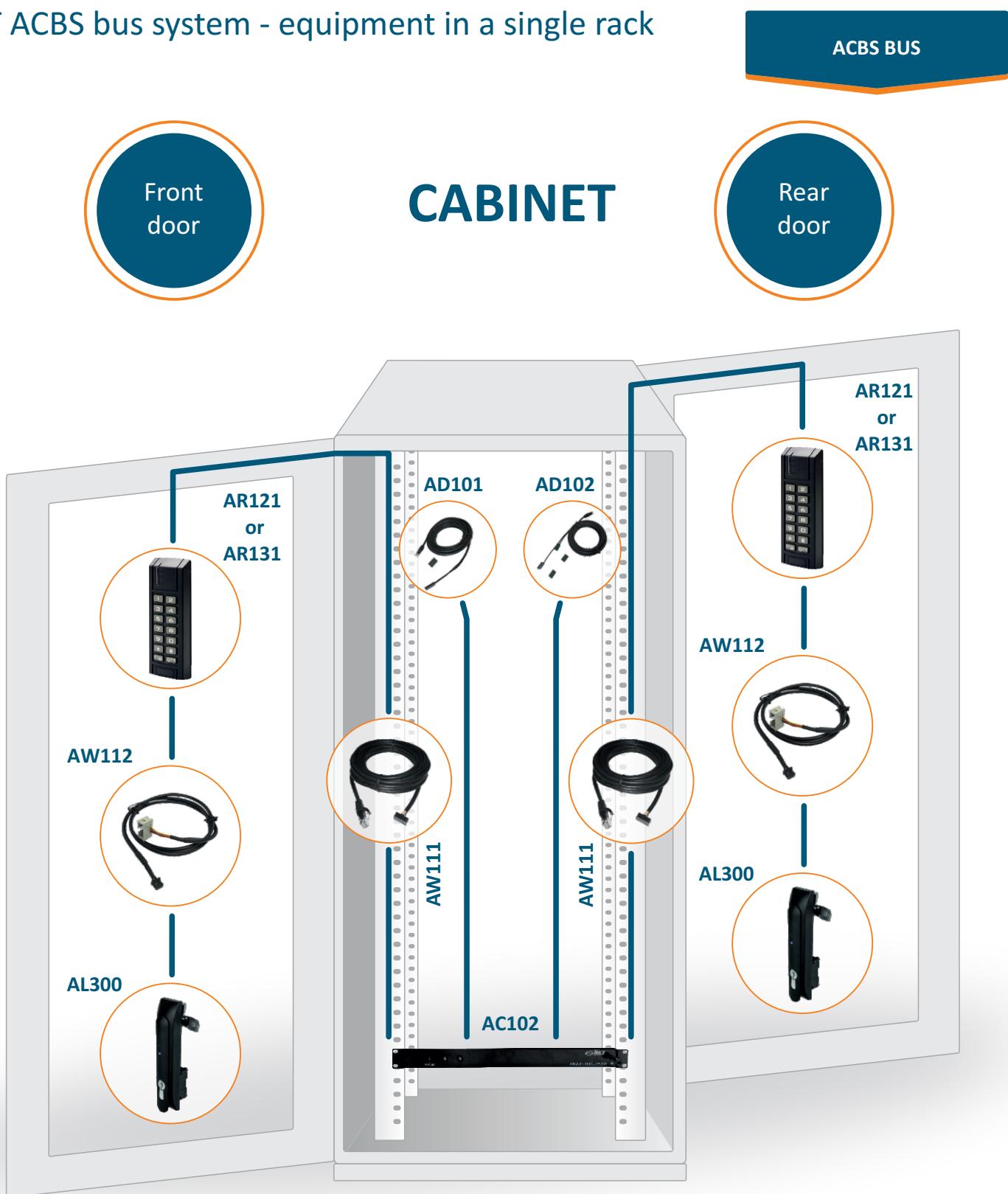
BKT ACBS bus system - design of the system



The BKT ACBS bus access control system is based on AC101-AC116 door controllers. The controllers are housed in a 1U enclosure designed to be mounted in a 19" rack. Depending on the version, the controller can monitor up to 16 doors. The number of controllers in the system is unlimited. The controller is connected to a local LAN accessible by a computer with software for configuration and monitoring of the system. Other cabinets are equipped with AB101 slave sets, also in 1U 19" enclosures. The controller is connected to the slave units with UTP cat5e patchcord, which form the RS485 bus for a subsystem of up to 16 doors.

BKT ACS access control system

BKT ACBS bus system - equipment in a single rack



The figure shows the connection arrangement of the devices of the ACBS bus access control system in one cabinet. Each cabinet in the system has a controller or a slave set in a 1U 19" enclosure that powers the devices. The casing includes a set of RJ45 sockets allowing to connect two door sensors, two cabinet door readers and possibly an additional sliding door reader. Connections are made with dedicated cables terminated with RJ45 plugs on the controller side.

BKT ACWS system with Wiegand interface - elements of the system

ACWS
WIEGAND

AC121, AC122 - system controllers

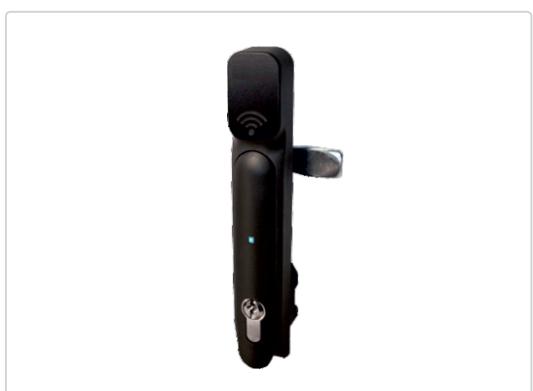
- The controller is the basic device of the system. Depending on the version, it supports 1 or 2 doors.
- The controller is housed in a 1U enclosure, adapted to be mounted in a 19" rack.
- The controller enables connection of two door sensors, two readers/handles and LAN. All connections to the controller are made with cables with RJ45 connectors.
- Pull-out drawer of the controller housing enables easy access to the connections. There is also space for a small excess of cables.
- The controller has three configurable LEDs, which, for example, can indicate the presence of power supply and the status of the cabinet front and rear doors



Handle with integrated reader

AL301- Cabinet handle with electric control and monitoring with a possibility of opening by key, with HID iClass, MIFARE card reader, and with Wiegand interface.

- Standardized 150x25mm mounting hole.
- Monitoring of handle state and possibility of transmitting information to the access control system.
- Possibility of opening the lock with a key in case of power failure.
- Supports MI FARE Classic, HID iClass standard cards.



Door sensors

AD101- Reed relay sensor for single-leaf doors with 5m cable.

AD102- Reed relay sensor for double-leaf doors with 5m cable.

- Normally open (NO) sensors.
- 5m long cable terminated with RJ45 plug for connection to the controller.
- The set includes metal brackets fixing the reed switches to the enclosure frame.



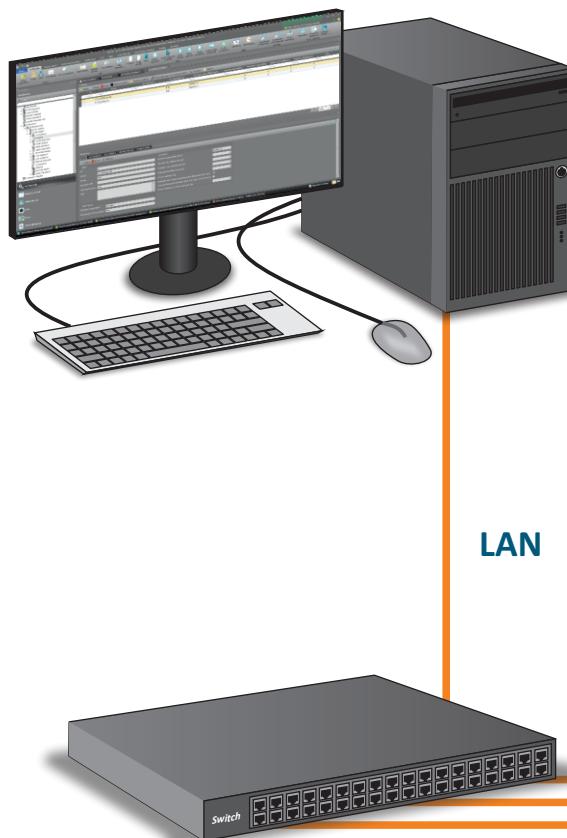
Dedicated wiring

AW114- Connection cable for AL301 handle with reader to the controller.



BKT ACS access control system

BKT ACWS system with Wiegand interface - design of the system

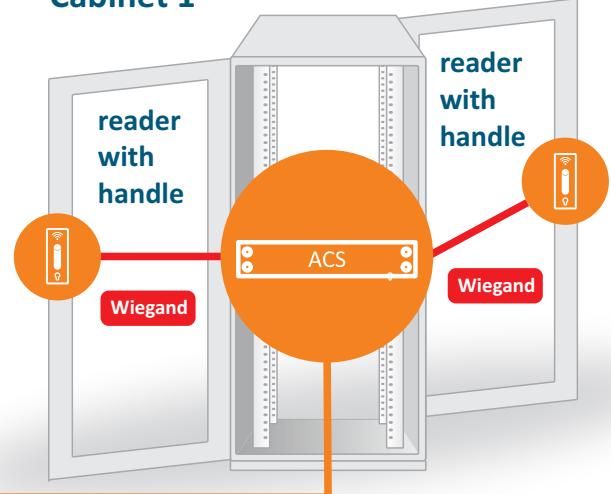


Local network

LAN

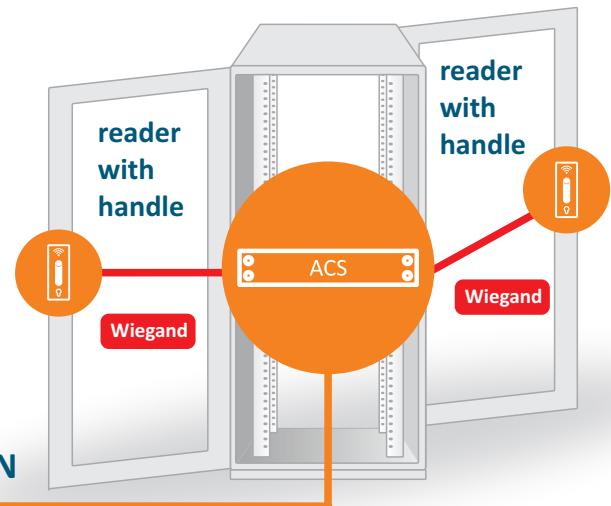
Access control system with Wiegand BKT ACWS interface is built of AC121 or AC122 door controllers. The controllers are housed in a 1U enclosure designed to be mounted in a 19" rack. Depending on the version, the controller can monitor up to 2 doors. The number of controllers in the system is unlimited. The controller is connected to a local LAN accessible by a computer with software for configuration and monitoring of the system.

Cabinet 1



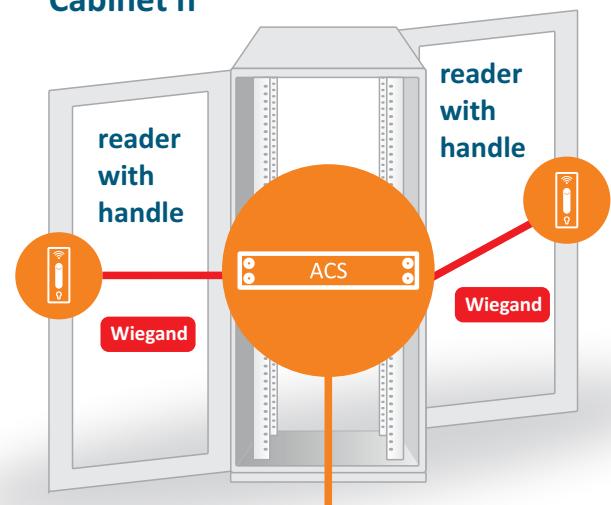
LAN

Cabinet 2



LAN

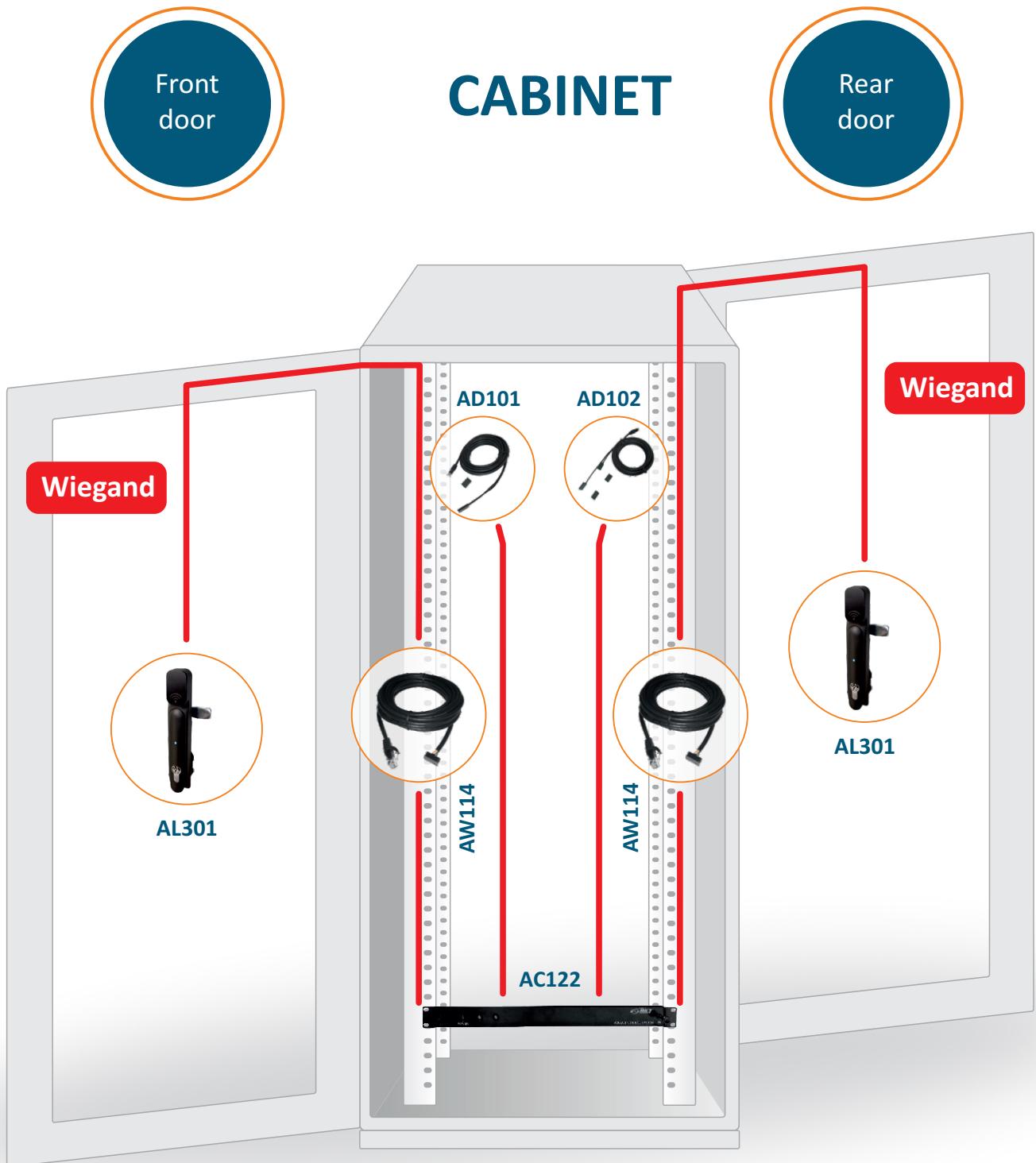
Cabinet n



LAN

BKT ACWS system with Wiegand interface - equipment in a single cabinet

ACWS
WIEGAND



-The figure shows the connection of ACWS access control system devices with Wiegand interface in one cabinet. Each cabinet in the system has an AC121 or AC122 controller in a 1U 19" enclosure. The controller has a set of RJ45 sockets to connect two door sensors, two readers/cabinet door handles. Connections are made with dedicated cables terminated with RJ45 plugs on the controller side.

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