

BCM centrals and BCM Access software





Industrial



Residential



Office

Access control system

BCM access control system is flexible, secure and user-friendly. Flexible, because its thoughtful design and quality components make it almost infinitely upgradable. Secure, because it includes tried-and-tested hardware and state-of-the-art software. And user-friendly, because it's been designed around the needs of those tasked with administering it – first and foremost.

The entire system can be expanded to cope with additional entrances and exits, to manage any combination of stand-alone and on- and offline doors, and to control the comings and goings of one to 100,000 people. Regardless of the size and functionality of the system you choose, you can be guaranteed that it will always share these features – and the same components – ensuring that it never becomes obsolete.

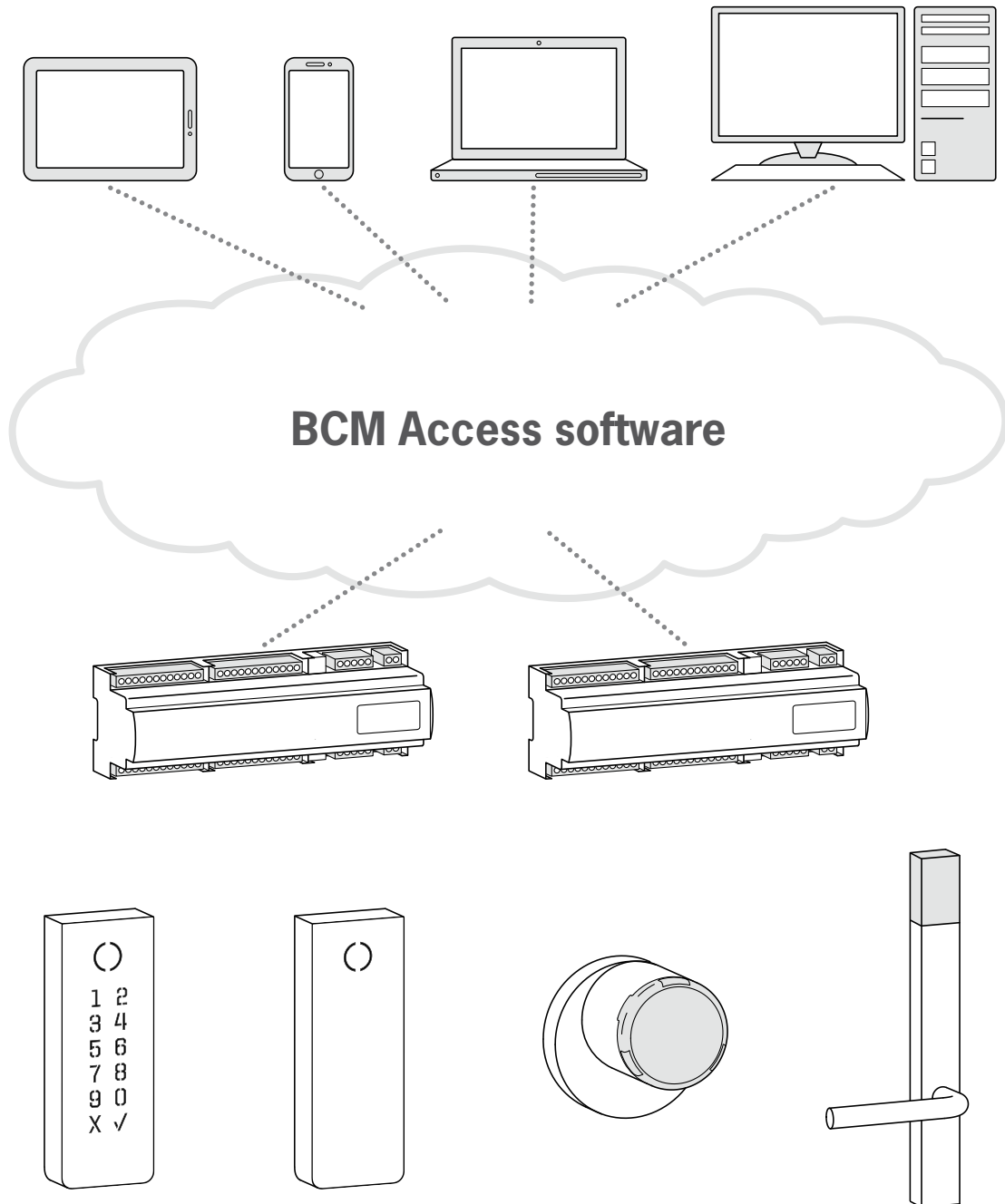
Eco-friendly

BCM products are all eco-friendly. Readers are equipped with EST® (Energy Saving Technology): the reader without keypad uses only 1 W and can be programmed to shut down at night or switch itself on and off every few seconds during non-working hours. BCM readers use much less energy as other equipment, saving you money, and the planet from CO₂ emissions.

Because our system is almost infinitely upgradeable you never have to throw away the old one. Simply add components and update the firmware and software. Waste is kept to a minimum. It's our way of opening the door to a better world.

The BCM Access concept

BCM access control system consists of three elements: readers, centrals and software. All come in a variety of sizes and formats, enabling you to assemble them in whatever combination best suits your needs. That's what makes BCM the most 'accessible' access control system there is.

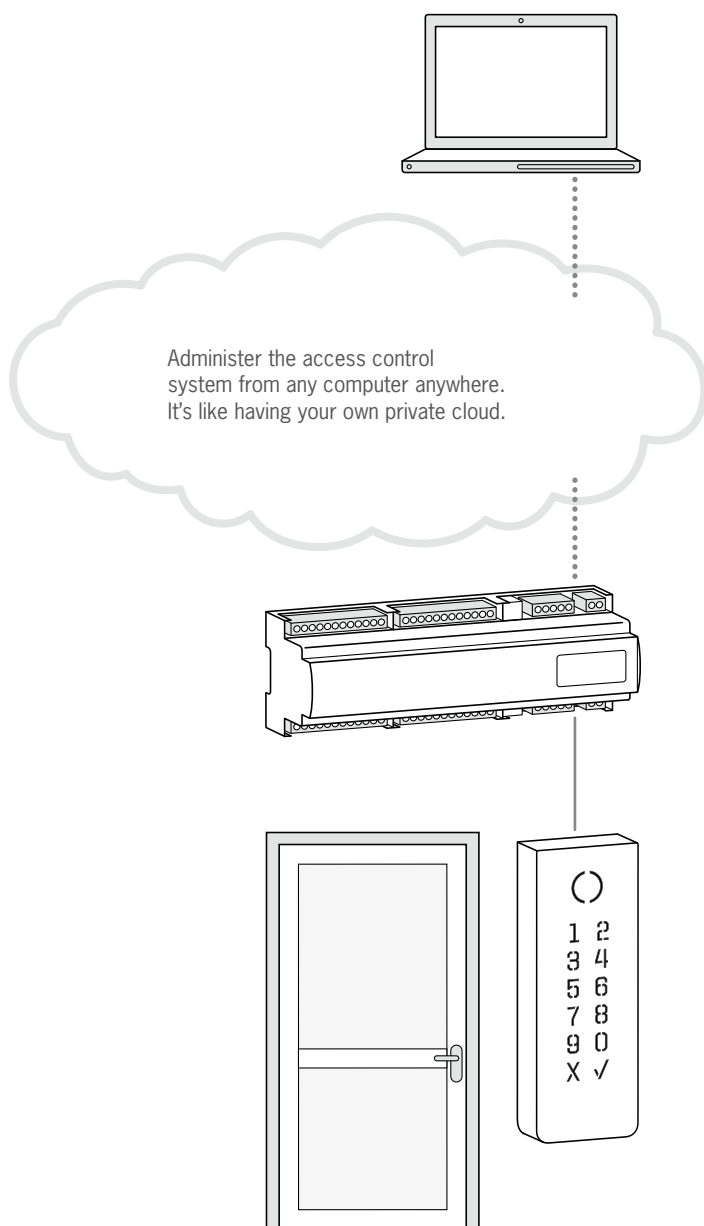


Upgrade any time by adding new elements. BCM Access can simply be expanded to meet your new requirements.

BCM software – control access via any web browser, on any computer, anywhere

Access control has never been easier. The BCM access system is administered via BCM access software which can be accessed from any PC, Mac, tablet or smartphone with a web browser*.

Using your browser, you can control who has access to which doors, in what building, and when – and you can do so regardless of where you are in the world or the time of day it is. In fact, it's like having your own private cloud. Logging-in is as easy as accessing your email.



EASY TO MANAGE

BCM access software was developed with the needs of administrators and receptionists firmly in mind. BCM access makes it easy to:

- Add or remove users and controlled locations
- Register users and tailor which doors they can access and when
- Monitor all activity – all events are logged
- Define and name access groups
- Search for information in much the same way as you can using web search (Google)
- Create, customise, save and print PDF reports
- Register a new user's tag – just enter the number printed on it into the system
- Upgrade – simply select the software that matches your needs.

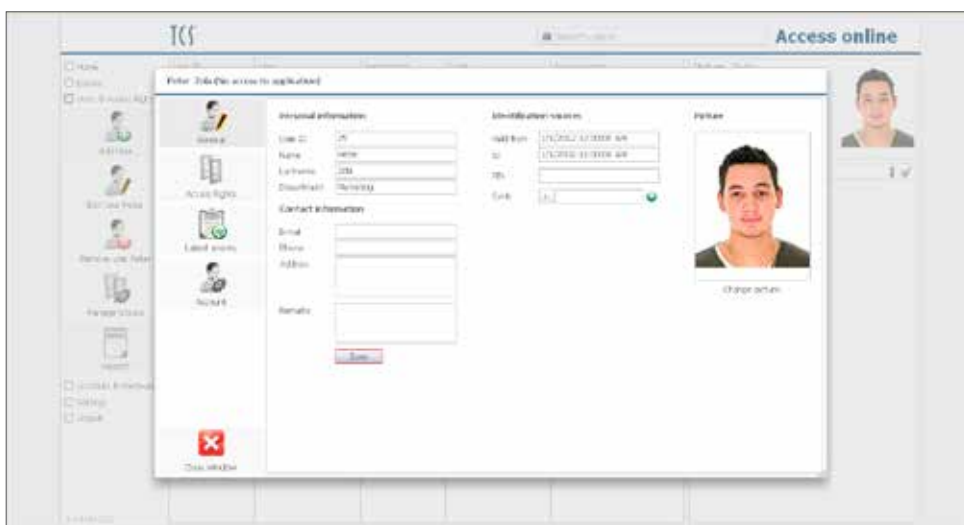
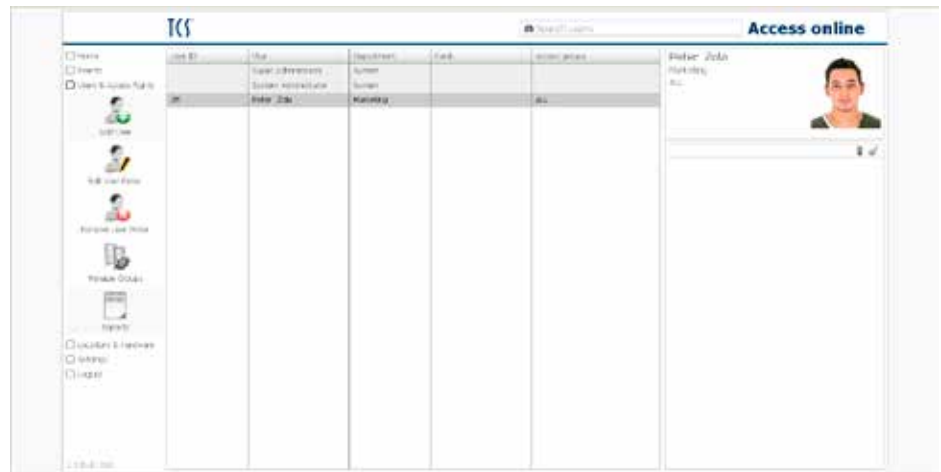
* For some applications Adobe Flash software is required

EASY TO USE

The user-interface is easy to navigate and intuitive to use. Setting up new users, and monitoring and changing when and where existing users can access locations, can all be initiated via a simple dashboard.

Easy to monitor
Overview enables administrators to keep tabs.

Easy to understand
Simple icons guide the administrator wanting to add or remove a user or location from the system.



Easy tip
Click once on a user's name to see their details. Double-click to edit their information and authorisations.

BCM Access software – intuitively easy to use

Always know what's happening

The first thing you'll encounter upon log-in is a dashboard with complete 'live' overview, showing latest events, network status, open and blocked doors, reported errors and more. 'Hot keys' provide jump-to links to all main functions (users & access rights, doors, zones etc). The user-interface and manuals are all in English.

First screen view after log on.



Search for user-specific events or locations: simply type in the name and/or location and search as you would in web search (Google).

All events are logged, enabling administrators to easily see who has logged in and made changes, and when they did so.

Network status, open and blocked doors, reported errors, and more are all clearly displayed.

Search made simple

All events, whoever major or minor, are recorded and stored. Using the search facility to find them again later is as easy as searching on web search (Google).

Create and output reports to PDF

Export events to PDF and print them in report format with just one click of the mouse.

BCM software

There are four different software packages to choose from, from within the BCM Access suite. They start with BCM Access online designed around the needs of homes, apartment blocks and small businesses.

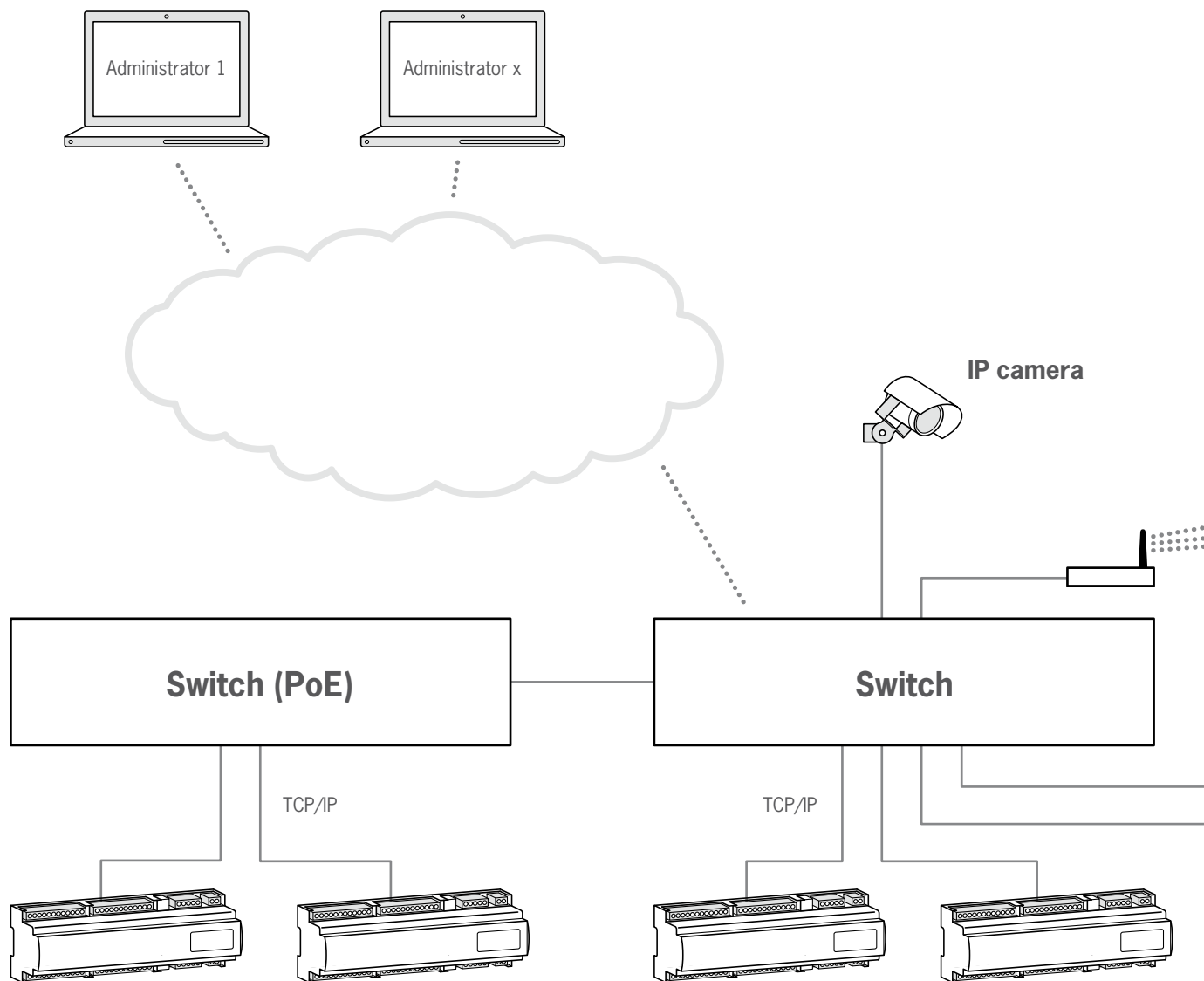
Because the features, functions and size of each system is determined by the software used to administer it, adding more doors, users or functionality is simply a matter of adding additional components and upgrading the software.

	BCM Access online	BCM Access onoffline100	BCM Access onoffline1500	BCM Access exchange
Type of software	Web browser software runs on BCM central 2 and 4	Web browser software runs on BCM central 2 and 4	Web browser software runs on BCM central 2 and 4	Web browser software runs on BCM central 2 and 4
Software installation on PC	No	No	No	No
Software upgrade and system expansion without changing hardware	Yes	Yes	Yes	Yes
Maximum number of users	50	100	1,500	3,000
Maximum number of doors	4 online doors	10 online / offline	100 online / offline	250 online / offline
Offline doors controlled by the software	No	Yes	Yes	Yes
Maximum number of administrator clients	1	2	5	10
Logging of administrator amendments	Yes	Yes	Yes	Yes
Mail message/warning to administrators	No	No	Yes	Yes
'Live' overview of key system information and operation status	Yes	Yes	Yes	Yes
Number of access groups	Unlimited	Unlimited	Unlimited	Unlimited
Number of time intervals	1	Unlimited	Unlimited	Unlimited
Time controlled door opening	No	Yes	Yes	Yes
Toggle function: card or code, PIN + card, or card + PIN	No	Yes	Yes	Yes
Automatic back-up with more than one central in the system	No	Yes	Yes	Yes
Import/export of text-files to and from Excel spreadsheet	No	Yes	Yes	Yes
Integration through input/output modules	No	No	Yes	Yes
Integration through XML	No	No	No	Yes
Picture of user uploaded directly from Adm. PC	Yes	Yes	Yes	Yes
Import of pictures from TCP/IP camera in connection with an event	No	No	Yes	Yes

Get a custom-made overview of the installed hardware

To facilitate the use of BCM Access software even more, it is possible for administrator to structure the set-up of the local system, by naming the locations and "placing" the centrals and readers to fit these locations on screen. This gives the administrators a custom-made overview of the actual hardware installation that fits their company.

BCM Access flexible installation



Direct connection to PoE-switch

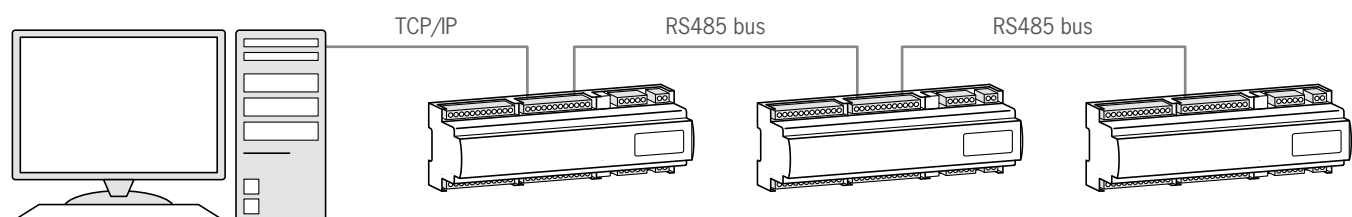
Centrals are connected to TCP/IP network through PoE switches. This eliminates the need for local power supply as it comes through the switch.

Direct connection to TCP/IP switch

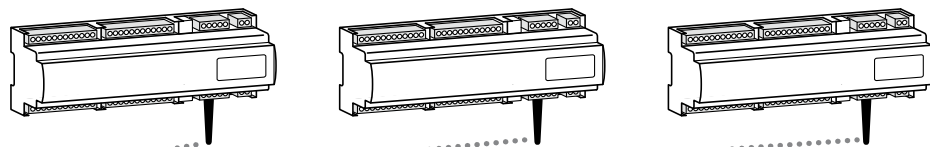
The most easy and common type of network system, where each central is connected directly to the switch.

“Traditional” PC connection

A central is connected to a stand-alone PC or Mac. The remainder centrals are connected via serial RS485 bus.

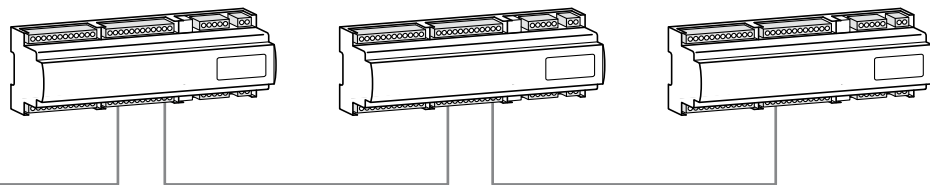


Regardless of the lay-out of your office, factory or home, BCM access has been designed to ensure that you will always find an installation set-up that matches your needs. Choose from either a “traditional” PC connection, connection via RS485 Ethernet/LAN, wireless LAN, or a combination.



Wireless LAN connection

Connect your centrals via wireless LAN and eliminate the need for cabled connection.

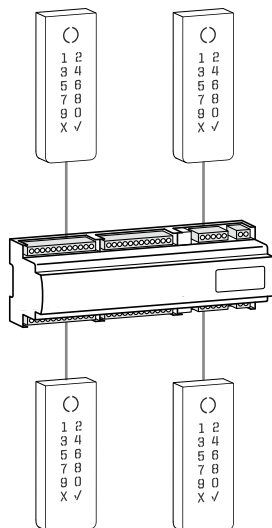
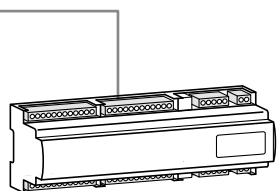


RS485 bus

RS485 bus

Connection via RS485 bus

Connect one central to the TCP/IP switch and the remainder to this central via a serial RS485 bus.



To each central you can connect up 8 readers for up to 4 doors.

FAIL SAFE

Each central on a TCP/IP connection constantly synchronises with all other centrals on the system. Each one also carries a complete copy of the database, detailing all users, their permissions, event logs etc. As a consequence, each central hold a back-up of the complete system. No additional back-ups are required unless you only have one central. In the event of a system malfunction or breakdown simply use your browser to call-up another central within the system and use that to update the first's database. It's what we call 'fail-safe'.

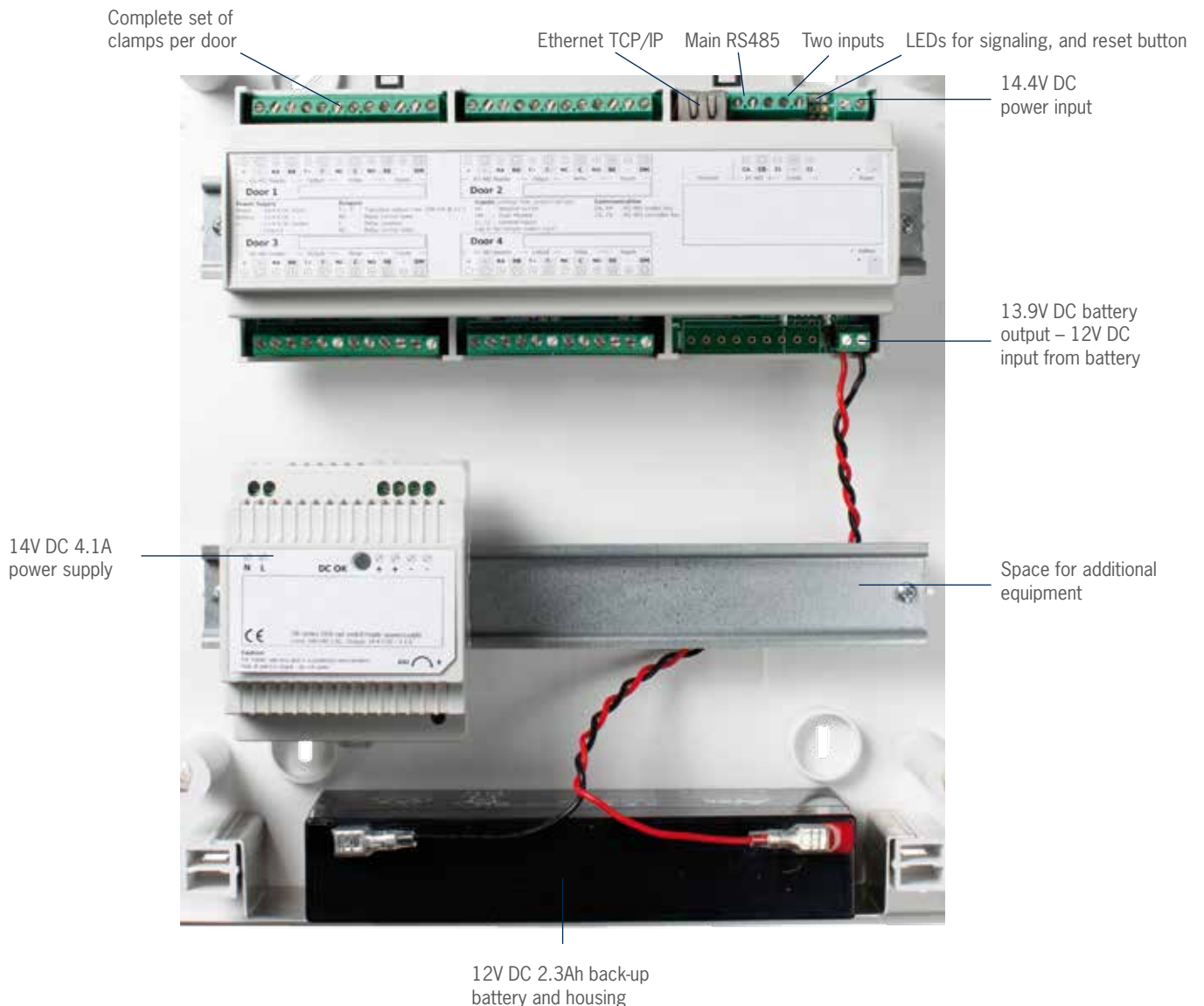
A new generation of access control

The heart of any access control system is the central. In addition to making our BCM centrals as user-friendly as possible, we were mindful of the need to make them 'future proof'. Of course, customers' ability to add to and upgrade our systems has always been a major focus, so all developments have had to anticipate both new technologies and backward compatibility. What we've created as a result therefore has a lot of flexibility

already built in to it. BCM centrals are open to future demands and have many interface and integration possibilities built-in.

BCM centrals are suitable for two or four online doors and come in two variants: standard, or an extended version with PoE supply, USB socket and output relays. All are suitable for DIN-rail installation.

STANDARD CENTRAL

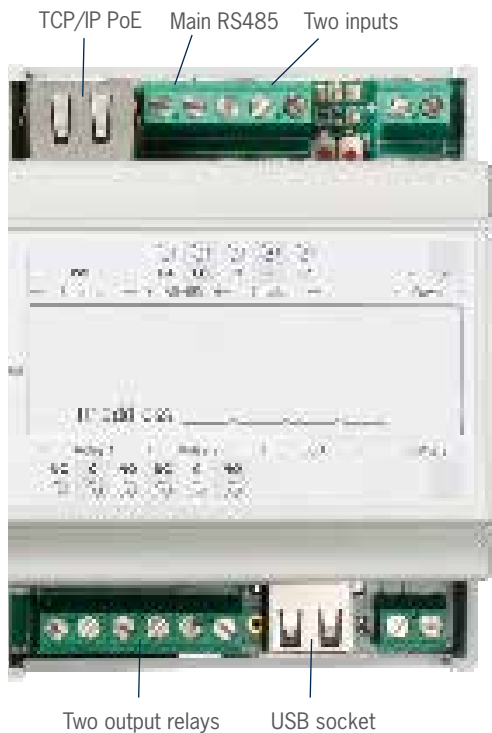


BCM + PoE centrals

BCM + PoE centrals have a PoE supply and USB socket. They are also fitted with two output relays which can, for example, be used for two zones alarm integration, or the integration with other systems in the building, connection/disconnection or to bypass alarms. The USB socket can be used to connect to a wireless LAN antenna, accessory modules such as I/O-modules, lift management, parking barriers, alarms systems via software protocols and more.

EXTENDED CENTRAL

– the PoE version has a POE-USB port and alarm I/O



Centrals can be supplied with a DIN rail box with smoked perspex cover for installation

Update both software and firmware

As something new, the BCM centrals, the BCM Access software and the firmware of the online BCM Access readers can be updated through the network connection when needed. This makes upgrading both simple and easy to achieve, without rendering existing installed equipment obsolete.

Features, functionality and the size of the system are all determined by the software version selected. In case that you need features, greater functionality, or a bigger system, and all you need to do is update the software. For details see the table on page 7.

BCM represents the past, present and future of door access systems. Take control today.



BCM CENTRALS

Specifications	200MHz CPU with 64MB RAM 512 MB Flash 100.000 users 1.000.000 events log
Supply voltage	14.4 VDC +/- 10%, when used with battery backup supply voltage must be between 13.9 VDC and 14.6 VDC. The central's consumption without external loads is 150mA at 14.4 VDC (2W). Maximal consumption is limited to 60W.
Battery backup	12 VDC, 2.1 Ah
Backup of real time clock	Minimum 24h
Operating temperature	-20 °C to 85 °C If used with battery backup, please check battery limitations.
Communications	1x J45 10/100 MB Ethernet port 1x RS485 central communications port ¹ , distance up to 1000m 1x USB host port ³
Readers	2x or 4x RS485 ports ¹ supports up to 4 or 8 readers using MODBUS protocol. Maximal power output for each reader port is 500mA at 13.9VDC ²
Outputs	2x or 4x lock outputs each as relay (max. 30VDC, 5A) and transistor MOSFET output (13.9 VDC at max. 500mA ²). 2x auxiliary output relays (max. 30VDC, 5A) ³
Alarm output	Use auxiliary relay output ³
Inputs	2x or 4x requests to exit (voltage free) 2x or 4x door monitors (voltage free) 2x auxiliary inputs (voltage free) Galvanic isolation is provided on all input channels with opto-couplers.
Tamper switch	(Art.no.: 800-000-9001) Optional, use auxiliary input
PoE (only +PoE models)	Powers up to 25 W ³ , according to standard for PoE+ IEEE 802.3at ²
Dimensions	Central housing is 213mm long, 91mm wide and 62mm high for 35mm DIN-rail. System housing for power supply, central, and battery holder is 287mm long, 361mm wide and 112mm high, IP 40, 2 rows of 12 modules
Weight	230g
Installation	Installation of equipment must be done by a professional electrician on restricted access location
Standards and certificates	CE
Color	Gray
Material	Central housing is made of self-extinguishing blend PC ABS, system housing is made of Acrylonitrile Butadiene Styrene (ABS)
Warranty	2 years

Note 1 Use AWG23 (0.6mm) Cat. 6 type or AWG24 (0.5mm) Cat. 5 type

Note 2 Maximal overall power consumption of all readers and all transistor outputs is limited to 4A at 13.9 VDC (55.6W).
When central is powered over PoE, maximal overall power consumption is 25W.

Note 3 PoE, USB, auxiliary inputs and outputs are only available on central BCM 2+PoE and BCM 4+PoE.