CENTRALISED

CAC

The CAC (centralised access control) allows complex installations with several accesses and additional functions. It also makes it possible to integrate other services:

- **INTERCOMMUNICATION.** For those accesses where it is necessary to permit access by external personnel. A button is pressed in order to contact the central console, and from there access is granted.
- **TECHNICAL OR INTRUDER ALARMS.** Each entrance and exit can be programmed with a detection and intervention time. The alarms will be seen on a computer and on the desktop exchange.
- **AUTOMATIC.** Activation of relays when certain events occur. Activation of devices from the readers (activation/deactivation of alarms on entry or exit). Weekly programmer that can plan up to 32 daily activations of relays and activation of individual sensors or groups of sensors. Permits automatic connection of lighting, engines, heating, air-conditioning, sprinkler systems, etc.

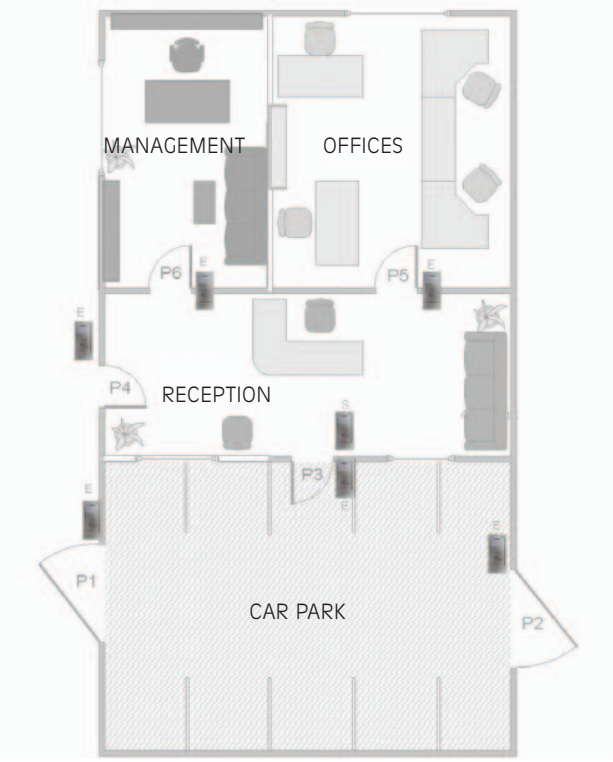
The installation is programmed by means of a PC and highly intuitive software in the Windows environment, allowing interaction with it in order to open, unblock or block doors, know the location of each user and view incidents. The connection between the PC and the installation can be direct (RS-485) or remote (MODEM/IP). The data can be updated and the installation monitored from different PCs (multi-station).

SPECIFICATIONS AND FEATURES

The information on users and the associated restrictions are stored in the Central Unit, which is the controller responsible for granting or denying access. Each CAC unit manages (V1.0):

- 2048 users. User file with photo and 6 definable fields.
- 32 doors. Each door can be configured with special time schedules: free access, restricted access, input of PIN code. It can manage one reader to enter and another to exit through the same door.
- 64 groups of users (profiles). Each one defines the restrictions that are applied to the group by means of the assignation of up to 3 Areas and 3 Timetables.
- 4 special profiles without restrictions.
- 32 Areas. Defines the doors to which access is permitted.
- 32 Timetables. Defines the periods of time during which access is permitted to users.
- Holidays (20 holidays and 3 holiday periods).
- Recording of the last 3,000 incidents (entries, exits, accesses denied, alerts, etc.)
- 1,000 intercommunication panels/1,000 sensors/1,000 relays.

In installation with more doors, up to 64 central units can be used together, allowing installations of up to 2,048 doors.



Special Functions

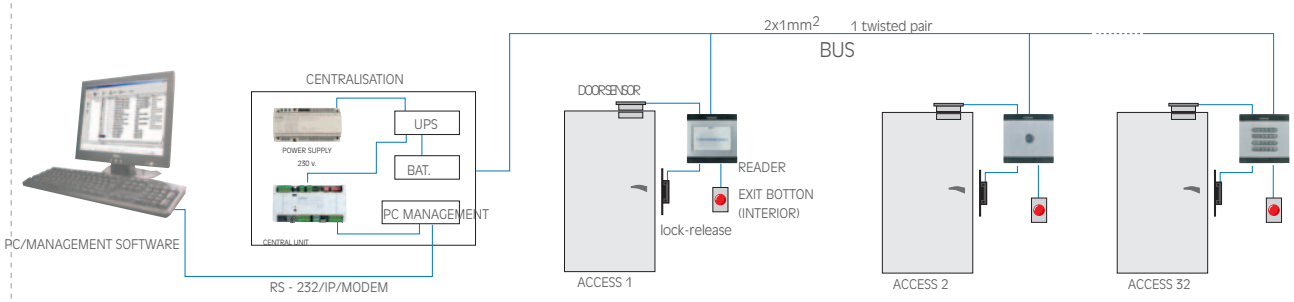
- Restriction of number of people in certain rooms or premises.
- Presence control (location of people) for emergency evacuations.
- Temporary blocking of users, individually or by groups.
- Access is not allowed until it is unblocked.
  Validity date of identifiers (start-end).
  Useful in gyms, universities, temporary
- contracts, etc.
- Automatically changes from summer to winter time and vice versa.
  Anti-passback function, which prevents two people from using the same identifier to access the premises.
  Defines the doors that belong to the perimeter of the premises and monitors whether the user is inside our outside the perimeter when s/he goes through these doors.
- Continuous testing of devices.

INSTALLATION

Main components:

- Central unit.
- Power supply.
- Door controller. Manages all the devices that interact with the door: readers, relay, lock-release, alarm relay, exit button, door sensor. The reader can be integrated.
- Reader.

The central unit communicates with the door controllers by means of an installation bus of 2 wires and a twisted pair.



The Central Unit is autonomous and does not require the PC to be permanently connected.

CENTRALISATION

The centralisation of the system contains the central unit, power supply, battery and module for communications with the PC. We recommend you to use an emergency power supply system. In installations with large distances, it will be necessary to install additional power supplies at the access in order to avoid voltage drops in the cabling.

REF. 2550 CENTRALISATION CABINET
Incorporates internal DIN rail.
Dimensions: 400 x 300 x 200 mm.

REF. 4410 CAC CENTRAL UNIT. DIN10
Includes PC software for access control.

REF. 4813 12VDC/2A POWER SUPPLY. DIN6
General power supply of the installation.

REF. 2060 12V BATTERY ADAPTOR. DIN6
Installed between the power supply and the system. Has a connection for an external Lead-Acid battery. If the input voltage falls below 11 V DCit automatically switches to the battery.

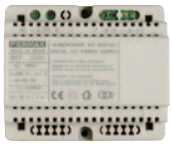
REF. 2070 12V/2.2A LEAD-ACID BATTERY

REF. 2337 12V/7A LEAD-ACID BATTERY

REF. 2339 MDS REPEATER. DIN10
Necessary for distances of over 1,200 metres between door controllers or decoders and the central unit. It is inserted into the connection bus, from which it receives power.

Ref.4410

Ref.4813


Ref.2060

Ref.2339

PC MANAGEMENT

REF. 2338 RS-485 ADAPTOR. DIN6
Necessary for a permanent connection between the PC and the central unit. For distances of over 30 metres,install the adapter outside the centralisation cabinet, near the PC. Maximum distance to the exchange 1,200 metres.

WITHOUT REF. REMOTE MANAGEMENT MODEM
Fermax recommends the US-Robotics FAX-MODEM model. It is connected to the central unit by means of the adaptor Ref.2338 and a null-modem 9- or 25-pin cable. Permits communication between the management computer and the installation using the telephone line. Another modem is required on the PC side.

REF. 1087 IP ADAPTOR
Is connected to the central unit by means of the adaptor Ref.2466. Permits communication between the management computer and the installation using the computer network (Ethernet), avoiding additional cabling. Remote management via internet is possible if there are no protection devices (Firewall) in the computer installation.

REF. 2466 DECODER PROGRAMMING MODULE
Is used to assign addresses and parameters to the decoders from the PC along with the software included (DECOWIN). It also makes it possible to connect the IP adaptor to the central unit.

REF. 2349 DESKTOP PROXIMITY READER
To activate proximity identifiers easily and rapidly in the PC using the management software.
RS-232 Connection.

Ref.2338

Remote management modem

Ref.1087

DOOR AND READER CONTROLLERS

Depending on the level of security required, a door controller (DC) with integrated reader or without reader will be used. In the first case, the installation is simpler, but the level of security is lower, as the entire control circuit is outside the secure area. In the second case, the DC is installed on the inside and the reader on the outside, so the devices that manage the lock-release cannot be tampered with.

With Integrated Reader

The readers include flush-mounted box. Optionally, they can be mounted on the surface.

- **REF. 23351 CITY PROXIMITY READER**
  Accessory: Surface box 8951
- **REF. 2552 BRUTO PROXIMITY READER**
  Accessory: Surface box 2778
- **REF. 23291 CITY KEYPAD READER**
  Accessory: Surface box 8951
- **REF. 2553 BRUTO KEYPAD READER**
  Accessory: Surface box 2778
- **REF. 1065 DIGITAL RF READER**
- **REF. 2327 PROXIMITY/DISPLAY/KEYPAD READER**
  Combines 2 technologies: Proximity and Keypad, for greater security. Accessory: Surface box 8955
- **REF. 2325 CONTACT/DISPLAY/KEYPAD READER**
  Combines 2 technologies: Contact and Keypad, for greater security. Accessory: Surface box 8955

These controllers require an external relay to activate a lock-release with consumption greater than 500 mA or inverted functioning:

- **REF. 2013 AUXILIARY RELAY**
- **REF. 2430 8-RELAY DECODER**
  Secure activation of the lock-release, from the inside.

Without Integrated Reader

- **REF. 4420 DOOR CONTROLLER**
  Accepts wiegand-26 bit or magstrip readers. Incorporates one relay to activate the lock release and another for auxiliary functions. Accepts a reader for entrance and another for exit, exit button, door sensor, free access button. Necessary for vehicle accesses for connection of the detection turns or to use readers of long reading range. Permits unblocking of the door during certain times. Is installed in 100 x 100 mm. boxes.

  Readers it accepts:

- **REF. 4490 CITY WG PROXIMITY READER**
- **REF. 4510 BRUTO WG PROXIMITY READER**
- **REF. 4560 LOFT WG PROXIMITY READER**
- **REF. 4480 CITY WG PROXIMITY/KEYPAD READER**
- **REF. 4550 LOFT WG PROXIMITY/KEYPAD READER**

For other types of reader, consult FERMAX.

Ref.23351

Ref.2552

Ref.23291

Ref.2553

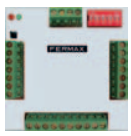
Ref.23261

Ref.2554

Ref.1065

Ref.2327

Ref.2325


Ref.4420

Ref.4490

Ref.4510

Ref.2315

Ref.4560

Ref.4480

Ref.4550

IDENTIFIERS

- **REF. 23361** **ISO PROXIMITY CARD**
  Permits printing – consult Fermax Technical Dept. first.
- **REF. 2336** **MAGNETIC STRIP PROXIMITY CARD**
  With magnetic strip. High coercivity.
- **REF. 4450** **PROXIMITY KEYRING**
- **REF. 2465** **DIGITAL RF REMOTE CONTROL**
- **REF. 2551** **DUAL RF REMOTE CONTROL**
  Incorporates proximity identifier for pedestrian access.

Ref.23361

Ref.4450

Ref.2328

Ref.2465

INTERCOM

The central unit can manage a radial intercom system between intercom panels and an exchange, to permit access to visitors, answer distress calls, etc. The intercom panels are connected to the central unit by means of a 6-wire decoder bus (cable Ref. 5918) through the panel decoders. The connection between the panel and the decoder is by means of 6 0.5 mm^2 wires. (Ref.5922).

- **REF. 2537** **CITYMAX DIGITAL GUARD UNIT**
- **REF. 8300** **CITYLINE PANEL 101**
  Includes flush-mounted box. Optional surface box Ref. 8951.
- **REF. 2246** **BRUTO PANEL 101**
  Includes flush-mounted box. Optional surface box Ref. 2303.
- **REF. 2436** **4-PANEL DECODER**
  Manages up to 4 intercom panels. DIN10

Ref.2537

Ref.8300

Ref.2436

Ref.2246

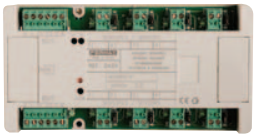
LOCK-RELEASES

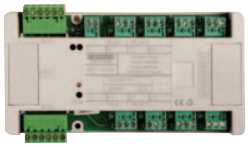
See lock-release section.

TECHNICAL ALARMS AND AUTOMATION

It is possible to monitor different sensors to communicate the incidents in the central console or activate different relays Ref. 2430, depending on the origin of the incident. These sensors are managed by means of a 'sensor decoder' and communicate with the central unit by means of the decoder bus. The sensors must be free potential contact and can be configured for NA or NC functioning.
It is possible to associate to each identifier the activation or switching of a relay from a given reader or the activation/deactivation of a sensor.

- **REF. 2429** **8-SENSOR DECODER**
  Manages 8 sensors: presence, flood, door contacts, etc.
- **REF. 2430** **8-RELAY DECODER**
  Manages 8 2A relays, NA or NC configurable.


Ref.2429


Ref.2430

ACCESSORIES

- **REF. 8951** **CITY SURFACE BOX SERIES 1**
- **REF. 8955** **CITY SURFACE BOX SERIES 5**
- **REF. 2778** **BRUTO SURFACE BOX MODULE 1**
- **REF. 2303** **BRUTO SURFACE BOX AUDIO KIT**
- **REF. 5918** **CONNECTION CABLE**
  4 x 1 mm^2 + 1 twisted pair, (rolls of 100 mts).
- **REF. 5922** **INTERCOMMUNICATION CABLE**
  6 x 0.5 mm^2. (100-metre rolls).