



Access control system (by swipe cards & entry system)



Profile view



Electrical cabinet



Front view



Terminal block built into the cabinet



Electric door opener



Control swipe cards



Closing system



Swipe card reader

GES-2 is a panel used for studying, wiring and programming access control in three simulated "rooms". These "rooms" are closed off by swinging doors that are locked using an electric door opener system. Two of the doors open by passing a swipe card in front of the local readers that are fitted on the doors, whereas the third door opens with an entry system.

Three push-buttons placed nearby also control the opening of the doors.

In addition to the features on the basic model, the **GES-2-COM** version also has a PLC to connect to the Ethernet network and a PC monitoring software program.

The student is required to interconnect the control module, the local readers, the entry system, the electric door openers, the push-buttons and their power supplies. All of the marked connections are wired to a terminal block. The student also programs the swipe cards and the digicode.

TECHNICAL CHARACTERISTICS

- 1 access control module, 6 swipe cards and 1 entry system.
- Viewing cover electrical cabinet and modular equipment.
- 220V AC power supply. Protected by a 30mA residual current circuit breaker.
- Base on wheels, dimensions: 1000 x 750 Height: 2000mm
- Dimensions of front and rear panels: 1000 x 750mm
- The unit is supplied fully wired, in working order, with wiring diagram, operating principle and detailed instructions for each component.

ref. GES-2

Model with PLC and software

Identical to **GES-2**, this **GES-2-COM** model also has a PLC to connect to the Ethernet network via an RJ45 connector and a highly intuitive monitoring software program, which, via the PLC, controls the door opener and receives information from the sensors on the panel.

TECHNICAL FEATURES OF THE PLC

- 9 24VDC inputs / 7 binary outputs
- Programming: sequential function chart or ladder language
- Ethernet connection to the IP computer network
- Software supplied with ladder language programme
- Fully functioning program: Supplied

FEATURES OF THE MONITORING SOFTWARE

- Offers the basic functions of a graphical monitoring tool.
- Compatible with Windows® 2000 and XP:

Allows you to:

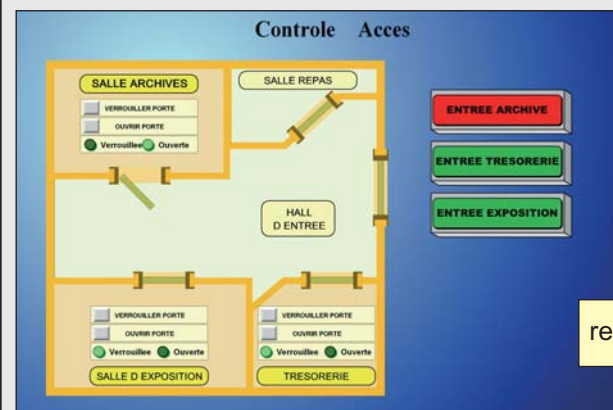
- acquire and display PLC variables
- Monitor and control of process

Displays:

- access to each room
- door locking
- the mains power

controls:

- access to rooms granted or denied



ref. GES-2-COM

COMPATIBLE
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The **GES-2-COM** model is supplied with:

- 1 software licence for the programming software
- 1 program for the PLC
- 1 monitoring software and 1 application software



Intruder alarm control system



Front view

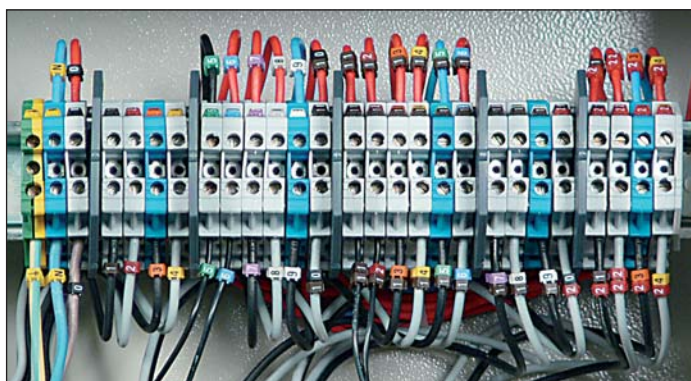
ref. GES-3



Profile view



Electrical cabinet



Terminal block built into the cabinet

Kit intruder
alarm control
see Page 47



GES-3 is a panel used for studying, wiring and programming an alarm unit that monitors three areas in the business premises, via two infra-red detectors and a magnetic detector triggered when the window is opened. In addition to the features on the basic model, the **GES-3-COM** version also has a PLC to connect to the Ethernet network and a PC monitoring software program. The student is required to interconnect the unit, the infrared detectors, the magnetic contact, the keypad, the siren and the flashing light. All of the marked connections are wired to a terminal block. The student is also required to programme the access code.

TECHNICAL FEATURES AND EQUIPMENT

- 1 stand-alone alarm unit (powered by mains and battery)
- 1 power supply for the sensors
- 2 infrared detectors
- 1 keypad for code entry (4 numbers)
- 1 siren
- 1 flashing light
- 1 magnetic door-opening detector fitted on the window
- 1 viewing cover electrical cabinet and modular equipment.
- 220V AC power supply. Protected by a 30mA residual current and circuit breakers.
- Base on wheels, dimensions: 2000x750mm Height: 2000mm
- Dimensions of front and rear panels: 1000 x 750mm
- The unit is supplied fully wired, in working order, with wiring diagram, operating principle and detailed instructions for each component.

Model with PLC and software

Identical to the **GES-3**, but this **GES-3-COM** model has a PLC to connect to the Ethernet network using an RJ45 connector and a highly intuitive software program, which, via the PLC, controls the monitoring and shutdown of the unit, the shutdown of the siren and receives information about the status of the detectors and the warning system.

TECHNICAL FEATURES OF THE PLC

- Please refer to the features described on page 110.

FEATURES OF THE MONITORING SOFTWARE

- Offers the basic functions of a graphical monitoring tool.
- Compatible with Windows® 2000 and XP:

Allows you to:

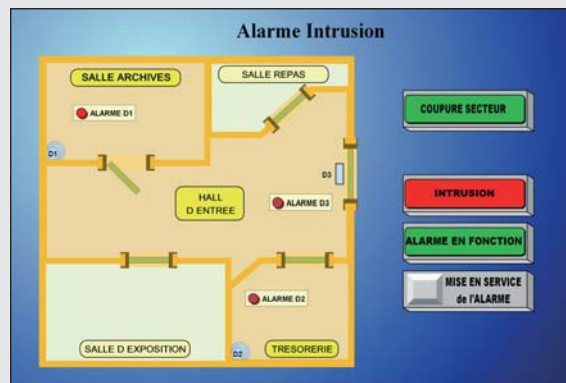
- acquire and display PLC variables
- Monitor and control of process

Displays:

- the status of the infrared and magnetic detectors
- the ON/OFF status of the alarm
- the room where the intrusion took place
- the mains power
- the status of the siren

controls:

- the monitoring and shutdown
- the siren



COMPATIBLE
V.D.I.
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The **GES-3-COM** model is supplied with:

- 1 software licence for the programming software
- 1 program for the PLC
- 1 monitoring software & 1 application software

ref. GES-3-COM



Security lighting control system



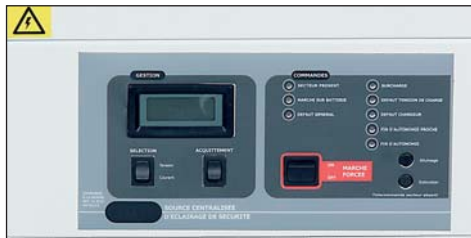
Rear panel



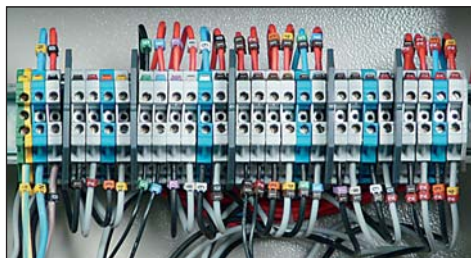
Front panel



Profile view



24V unit safety power source




Terminal block built into the cabinet

GES-4 is a panel used for studying and wiring security lighting. It operates in two independent modes.


- Permanent mode, wired onto the front panel: security lighting is always switched on. Power is supplied to it via a central battery
- Intermittent mode, wired to the back of the panel: security lighting is switched on if the mains power fails. They are stand-alone units and each has its own battery. In addition to the features on the basic model, the **GES-4-COM** version also has a PLC to connect to the Ethernet network and a PC monitoring software program. The student has to interconnect the lighting units, the anti-panic unit, the central battery and the "mains power fault" detector. All of the marked connections are wired to a terminal block.

TECHNICAL FEATURES AND EQUIPMENT

Front panel

- 2 security lighting units 
- 1 forced operation switch for the security lighting
- 1 anti-panic lighting unit
- 1 communication unit which controls the anti-panic lighting
- 1 manual unit shutdown control
- 1 maintenance-free central battery for permanent lighting, with digital voltage and drain current display, indicator lamps: mains power on, battery operation, battery discharge, fault.
- 1 spotlight connected to the mains showing the mains voltage.

Back panel

- 2 stand-alone security lighting units, with maintenance-free internal battery 
- 1 stand-alone anti-panic lighting unit with maintenance-free internal battery
- 1 manual unit shutdown control
- 1 spotlight connected to the mains showing the mains voltage.
- 1 viewing cover electrical cabinet, shared by both panels, modular equipment. 1 reinforced electrical cabinet, common to both panels, modular equipment. 220V AC Power supply. Protected by circuit breakers including a 30mA residual current type.
- If a general shutdown occurs, the remote control cuts off the battery power to prevent discharge.
- Base on wheels, dimensions: 2000x750mm Height: 2000mm
- Dimensions of front and rear panels: 1000 x 750mm
- The unit is supplied fully wired, in working order, with wiring diagram, operating principle and detailed instructions for each component.

ref. GES-4

Model with PLC and software

The **GES-4-COM** is identical to the basic **GES-4** model, except that it also has a PLC for linking to the Ethernet network using an RJ45 connector. A highly intuitive PC monitoring software program is used to control the lighting units via the PLC.

TECHNICAL FEATURES OF THE PLC

- Please refer to the features described on page 110.

FEATURES OF THE MONITORING SOFTWARE

- Offers the basic functions of a graphical monitoring tool.
- Compatible with Windows® 2000 and XP:

Allows you to:

- acquire and display PLC variables
- Monitor and control of process

Displays:

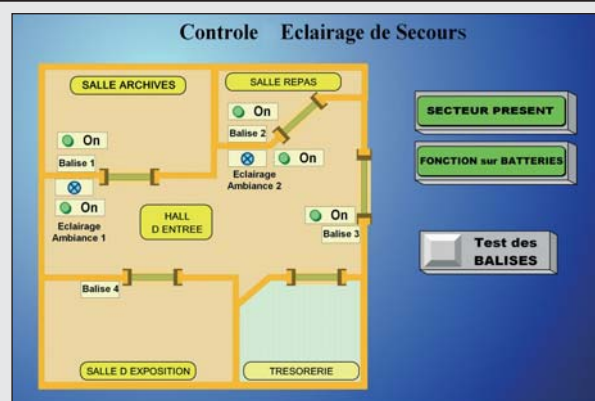
- battery-operated
- a voltage on the lighting unit terminals

controls :

- the activation of the anti-panic unit
- the activation of the security lighting units

COMPATIBLE
V.D.I.

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The **GES-4-COM** model is supplied with:

- 1 software licence for the programming software
- 1 program for the PLC
- 1 monitoring software & 1 application software

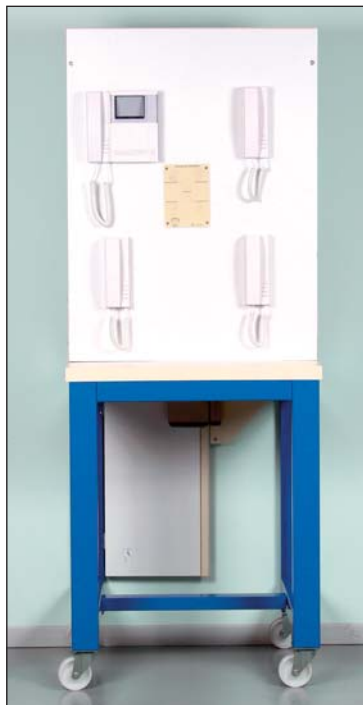
ref. GES-4-COM



Entry access and video access control system



Rear panel

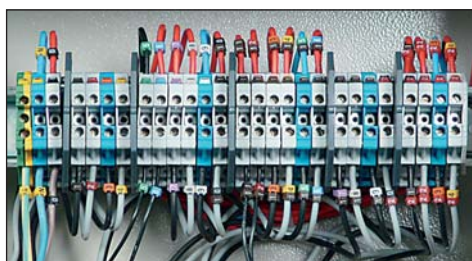


Front panel

ref. GES-5



Electric door opener



Terminal block built into the cabinet



Profile view

Kit access
control
see Page 46



GES-5 is a panel used for studying and wiring a building access system, with video monitoring and communication via the entry phone. In addition to the features on the basic model, the **GES-5-COM** version also has a PLC to connect to the Ethernet network and a PC monitoring software program.

The student is required to interconnect the "street" end video unit, the videophone and the entry phones, the control buttons and the electric door opener. All of the marked connections are wired to a distributor and a terminal block.

TECHNICAL FEATURES AND EQUIPMENT

- 1 door, opening onto the "street", with electric door opener
- 1 "street" video unit comprising:
 - a camera / a loudspeaker / a 4-button caller keypad (one for each area)
- 1 "building" videophone with a screen that is linked to the camera
- 3 "building" entry phones
 - The videophone and entry phones have a button which controls the electric door opener
- 1 4-channel distributor for interconnecting the videophone and entry phone
- 1 viewing cover electrical cabinet, modular equipment.
- 220V AC power supply. Protected by a 30mA residual current circuit breaker.
- Base on wheels, dimensions: 2000x750mm Height: 2000mm
- Dimensions of front and rear panels 1000x750mm
- The unit is supplied fully wired, in working order, with wiring diagram, operating principle and detailed instructions for each component.

Model with PLC and software

The GES-5-COM is identical to the basic GES-5 model, except that it also has a PLC for linking to the Ethernet network using an RJ45 connector. A highly intuitive PC monitoring software program is used to control the electric door opener via the PLC.

TECHNICAL FEATURES OF THE PLC

- Please refer to the features described on page 110.

FEATURES OF THE MONITORING SOFTWARE

- Offers the basic functions of a graphical monitoring tool.
- Compatible with Windows® 2000 and XP:

Allows you to:

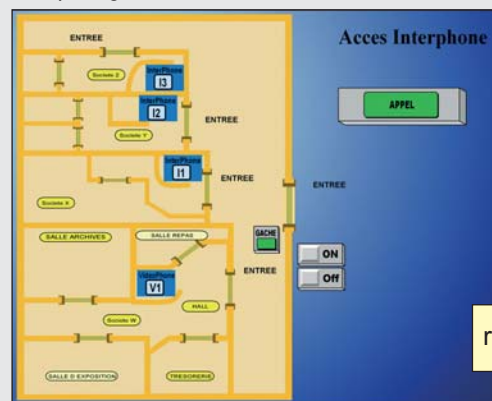
- acquire and display PLC variables
- Monitor and control of process

Displays:

- a call
- power to the electric door opener
- the mains power

controls:

- opening the electric door latch



ref. GES-5-COM

The **GES-5-COM** model is supplied with:

- 1 software licence for the programming software
- 1 program for the PLC
- 1 monitoring software & 1 application software

COMPATIBLE
V.D.I.

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Fire alarm control system



front view



Profile view



Electrical cabinet

ref. GES-6



Terminal block built into the cabinet



Optical detector



Closing system



Optical smoke detector

Kit fire warning control
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GES-6 is a wiring and study panel for an independent initiating detector. The independent initiating detector detects a fire using 2 optical smoke detectors and 2 manual triggers. If a warning occurs, a magnetic bolt allows an emergency exit door to open. The student is required to interconnect the optical smoke detectors, the manual triggers, the independent initiating detector and the electric bolt. All of the marked connections are wired to a terminal block.

TECHNICAL FEATURES AND EQUIPMENT

- 2 resettable manual triggers with diaphragms
- 2 optical smoke detectors They can be activated using an aerosol that is supplied with the panel
- 1 independent initiating detector fitted with a maintenance-free battery (3 hours autonomy)
 - with reset push-button
 - with operating test push-button
- 1 door with electric bolt
- 1 viewing cover electrical cabinet, modular equipment.
- 220V AC power supply. Protected by a 30mA residual current and circuit breakers.
- Base on wheels, dimensions: 2000 x 750mm Height: 2000 mm.
- Dimensions of front and rear panels 1000 x 750mm
- Unit supplied fully wired, in working order, with wiring diagram, operating principle and detailed instructions for each component.

Model with a PLC software

Identical to the **GES-6**, but this **GES-6-COM** model also has a PLC to connect to the Ethernet network, using an RJ45 connector, and a highly intuitive software program that controls door opening via the PLC.

TECHNICAL FEATURES OF THE PLC

- Please refer to the features described on page 110.

FEATURES OF THE MONITORING SOFTWARE

- Offers the basic functions of a graphical monitoring tool.
- Compatible with Windows © 2000 and XP:

Allows you to:

- acquire and display PLC variables
- Monitor and control of process

Displays:

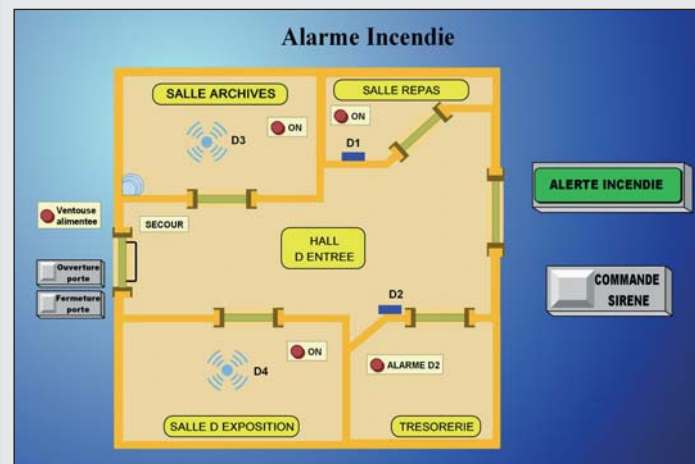
- opening of the emergency exit
- power supply to the electric bolt
- mains power on

controls:

- opening the electric door latch
- powering the siren
- Resetting the independent initiating detector

COMPATIBLE
V.D.I.

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The **GES-6-COM** model is supplied with:

- 1 software licence for the programming software
- 1 program for the PLC
- 1 monitoring software & 1 application software

ref. GES-6-COM



Anti-intrusion unit on BUS wire



ref. GES-7

GES-7 is a programming and wiring panel for a BUS wired (two wires) anti-intrusion alarm unit. This unit monitors two areas in the business premises by means of a passive infrared sensor, a dual-technology intrusion sensor (infrared + microwave frequency) and two magnetic sensors which are triggered if the windows are opened. A keypad for entry code, which is built into the unit, activates or deactivates monitoring of the area. A second remote keypad performs the same operation remotely. A contacts/BUS wiring interface makes it possible to connect any type of sensor with a contact opening onto the BUS network.

A stand-alone fire sensor is supplied with the GES-7.



Supplied with 2 detectors
and 1 fire detector

Students build the interconnections and carry out the programming between the unit on the one hand and the various sensors, keypads for code entry and siren on the other hand. All of the outputs are marked and attributed to a terminal where the wiring takes place.

TECHNICAL FEATURES AND EQUIPMENT

- 1 BUS unit monitors two areas and displays the events log. The built-in keypad activates and deactivates monitoring. 10 different codes: 1 master, 1 installer, 8 users.
- 1 radio keypad (information + controls) fitted with an LCD display.
 - displays the system status
 - controls the activation and deactivation of monitoring
 - customises the installation by clearly naming the system elements on an alphanumeric keypad.
- 1 siren with four different tones (intrusion – fire – technical – emergency)
- 1 dual technology intrusion sensor (infrared + microwave frequency). 12m range (90°)
- 2 break contacts for protecting access points (doors and windows, etc.)
- 1 8 contacts/BUS interface for connecting contact sensors to the network.
- 1 optical smoke detector, with its own aerosol for testing purposes.
- 1 viewing cover electrical cabinet and modular equipment.
- 220V AC power supply. Protected by circuit breakers, including one 30mA residual current circuit breaker.
- Base on wheels, dimensions: 750 x 670mm Height: 950mm
- White melamine panel. Dimensions: 1000 x 750mm.
- The unit is supplied fully wired, in working order, with a wiring diagram, operating principle and detailed instructions for each component.



BUS unit monitor



Keypad



Siren



Detector



Anti-intrusion unit on telephone line



Front panel

Rear panel

ref. GES-8



GES-8 is a programming and wiring panel for an anti-intrusion alarm unit. This unit monitors three areas in the business premises by means of a passive infrared sensor, a dual technology intrusion sensor (infrared + microwave frequency) and a magnetic sensor triggered if the window is opened.

A keypad for entry code, which is built into the unit, activates or deactivates monitoring of the area. A second remote keypad performs the same operation remotely.

A transmitter associated with a telephone interface reports triggering of the alarm via the remote telephone. The transmitter is easy to program, thanks to its built-in keypad.



Supplied with 2 detectors
and 1 fire detector

IMPORTANT: The panel is fitted with a stand-alone telephone line. Commands sent from the telephone set that is supplied with the system are not routed via the school's telephone network or via the public telephone network.

Students build the interconnections and carry out the programming between the unit on the one hand and the various sensors, keypads for code entry, automatic switchboard, transmitter and siren on the other hand. All of the outputs are marked and attributed to a terminal where the wiring takes place.

TECHNICAL FEATURES AND EQUIPMENT

- 1 wired unit with 3 areas. Controlled from the unit, locked by a key or by the remote keypad for code entry.
- 1 2-output keypad for code entry with inverter, 2 free lamps, 1 master code, 1 duress code and 45 user codes.
- 1 internal siren
- 1 passive infrared sensor with a 12m range.
- 1 dual-technology intrusion sensor (infrared + microwave frequency), with a 10m range
- 1 break contact
- 1 telephone
- 1 telephone interface
- 1 telephone transmitter which carries out all the transmission and reception functions of the alarm, voice assistance and interphone dialogue.
- 4 programmable telephone numbers
- message which can be personalised
- built-in keypad for activating and deactivating monitoring and for programming telephone numbers.
- 1 optical smoke detector with its own aerosol.
- 1 viewing cover electrical cabinet and modular equipment.
- 220V AC Power supply. Protected by circuit breakers, including one 30mA residual current circuit breaker.
- Base on wheels, dimensions: 750 x 670mm Height: 950mm
- White melamine panel. Dim. 1000 x 750mm.
- The unit is supplied fully wired, in working order, with wiring diagram, operating principle and detailed instructions for each component.



Electrical cabinet



Wired unit with 3 areas



Remote keypad



Telephone transmitter



Wireless anti-intrusion unit



ref. GES-9

GES-9 is a panel used for studying and programming a wireless anti-intrusion alarm unit with a built-in siren. The unit is fitted with a passive infrared sensor, a dual intrusion sensor (infrared + microwave frequency) and a magnetic sensor which is triggered if the window is opened. The keypad for code entry enables or disables the alarm remotely. A transmitter associated with an automatic switchboard reports any triggering of the alarm via a remote telephone. The transmitter is easy to program, thanks to its built-in keypad.

A stand-alone fire sensor is supplied with the GES-9.



Supplied with 2 detectors
and 1 fire detector

IMPORTANT: The panel is fitted with a stand-alone telephone line. Commands sent from the telephone set that is supplied with the system are not routed via the school's telephone network or via the public telephone network.

Students program the unit, the various sensors, the keypad for code entry, the siren, the automatic switchboard and the transmitter.

TECHNICAL FEATURES AND EQUIPMENT

- 1 radio unit fitted with a siren which can be disabled. 4 programmable tones (intrusion, fire, technical and emergency).
- 1 radio keypad for receiving information and remote control, with LCD display: activation and deactivation. Fully on and partially on. 3 access codes: 1 master, 2 users. Log of the last 200 events. Information about the system status: activated and deactivated, open doors, etc. Siren test. System configuration. Allocation of sensors to partially on.
- 1 infrared sensor. 12m range
- 1 dual technology intrusion sensor: (infrared + microwave frequency)
- 2 break contacts for protecting access points (doors and windows, etc.)
- 1 optical smoke detector with its own aerosol.
- 1 telephone interface
- 1 telephone
- 1 telephone transmitter carries out all the alarm transmission and reception functions. Voice assistance and interphone dialogue. 4 programmable telephone numbers. Message which can be personalised. Built-in keypad for activating and deactivating monitoring and for programming telephone numbers.
- Base on wheels, dimensions: 750 x 670mm Height: 950mm
- White melamine panel. Dim. 1000 x 750mm.
- The unit is supplied fully programmed, in working order, with a wiring diagram, operating principle and detailed instructions for each component.



Radio unit



Keypad



Telephone transmitter



Detector