

## Central unit

<b>4200</b>	<b>4203</b>
<b>4201</b>	<b>4204</b>

### Description

System central unit card, available in 4 models, can manage from 16 to 128 zones and can be controlled by keypad LCD 4215, HomeAlarm app (IP versions only) telephone voice controls or DTMF tones.

The available models are the following:

- 4204 - 16 central unit card with 10 inputs that can be expanded up to 16;
- 4200 16-IP central unit, like central unit 4204 has 10 inputs which can be expanded to 16 but also has an ethernet interface;
- 4201 48-IP central unit. A central unit designed for average residential use, has 10 inputs which can be expanded to 48 and an ethernet interface;
- 4203 128-IP central unit. The most versatile central unit because it has 10 inputs which can be expanded to 128 and an ethernet interface.

Each central unit card has 6 programmable inputs and 4 terminals which, on installation, can be configured as inputs or outputs. The central units must be installed in their metal enclosures:

- 4210 for the 16 and 16 IP central units;
- 4211 for the 48 IP and 128 IP central units.

Certifications:

4200/1/3: EN 50131 Index 3 Environmental Class II

4204 :EN 50131-1 Index 2 Environmental Class II.

### Related items

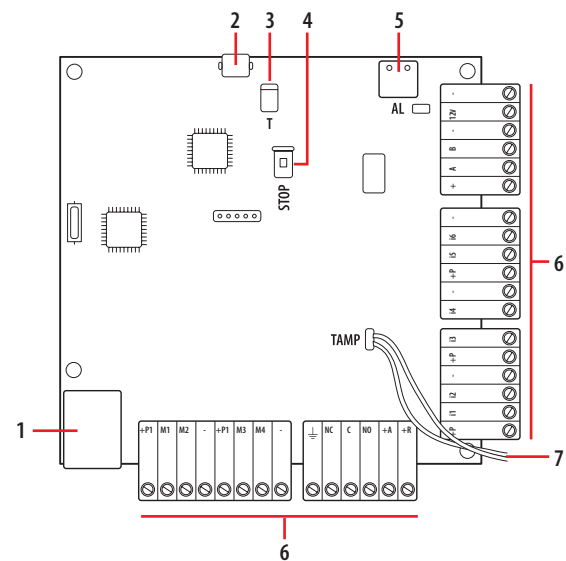
4210 Enclosure with 1.7A power supply for 16 and 16 IP central unit

4211 Enclosure with 3A power supply for 48 IP and 128 IP central unit

### Dimensional data

Size: 115 x 115 mm

Front view



### Legend

1. ETHERNET / IP connector  
(Only for 16-IP, 48-IP, 128-IP central units)
2. Programming USB connector
3. T Tamper clamp  
Open: tamper detection ON  
Closed: tamper detection OFF
4. STOP Reset of the factory data:
  - switch the central unit off
  - remove the STOP jumper
  - switch the central unit on
  - the green led shines steadily and the central unit remains in the wait state until the STOP jumper is reinserted.
 The central unit resets the factory data and starts normal operation.
5. AL – 12V battery connector
6. Terminal boards for per connections
7. Cable for connection of the metal tamper box

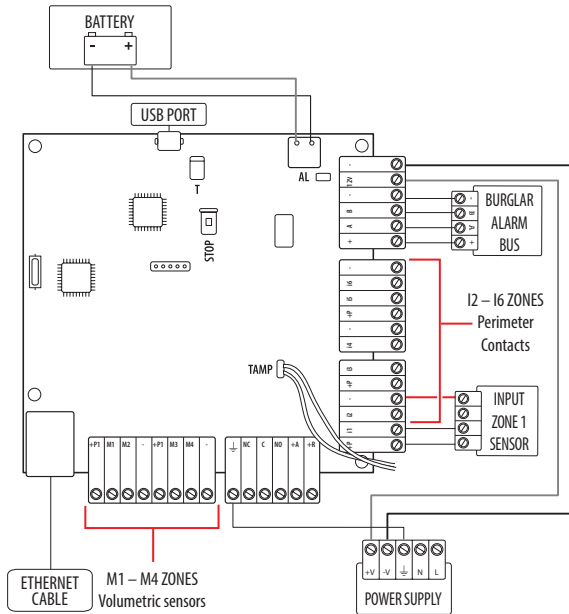
## Technical data

	BOX 4210		BOX 4211	
	16 central unit card (4204)	16-IP (4200) central unit card	48-IP (4201) central unit card	128-IP (4203) central unit
Supply voltage	110–240Vac; 50/60Hz 0.4A		110–240Vac; 50/60Hz 0.8A	
Supply voltage with battery only	9.6 – 13.8		9.6 – 13.8	
Battery charger power supply (type A, EN50131-6 standard)	14.2V ± 1 %; 1.7A		14.2V ± 1 %; 3.5A	
Absorption (medium / stand-by)	45mA	75mA	75mA	75mA
Max absorption (only central unit card, battery charger not included)	60mA	100mA	100mA	100mA
+, +P, +P1 clamp outputs	Total maximum deliverable current 1A			
Maximum current available for the power supply of optional cards and external devices to conform to standard EN50131	600mA index 2 100mA index 3		1400mA index 2 200mA index 3	
Maximum ripple voltage on the outputs	120mV			
Battery charger max. current	600mA		750mA	
Max time to recharge the battery to 80%	10h		24h	
Battery release voltage	10V			
Generation of flat battery fault (reset)	11,5V (13,1V)			
Generation of low power supply voltage fault	12V			
Back-up battery	7.2Ah		18Ah	
Max. number of inputs	16		48	128
Inputs on board	6 + 4			
Max number of OC outputs + relays (with expansions)	16		48	128
Ethernet activity management	NO	YES	YES	YES
USB port	YES			
Power Supply Fault Notification	YES			
Surge Protection	SI (17.5V)			
Digital Card Combinations	More than 4 billion			
Alarm transmission system	SP2, DP1, SP4, DP3			
Time for the generation and transmission of Alarm Messages	3 sec.			
Time to detect and present faults	10 sec.			
IP Protection Index	IP 3X			
Safety index	2	3		
Environmental Class	II			
Insulation class Dimensions (LxHxD)	I 255 x 295 x 80mm		I 325 x 400 x 90mm	
Weight (with battery)	2.3Kg (4.5Kg)		4.2Kg (10Kg)	
Operating temperatures	(-10) – (+55) °C			
Humidity (not condensed)	95%			

**Basic system wiring diagram**

Example of configuration and wiring of a central unit:

- 1 zone (i1) delayed in input and output; typically dedicated to the input port.
- 2 – 6 zones (from i2 to i6) NC not delayed for the perimeter sensors (contacts)
- 4 zones (from M1 to M4) not delayed with double parallel balancing (2x10kΩ; see next section) to be used for the internal volumetric sensors.

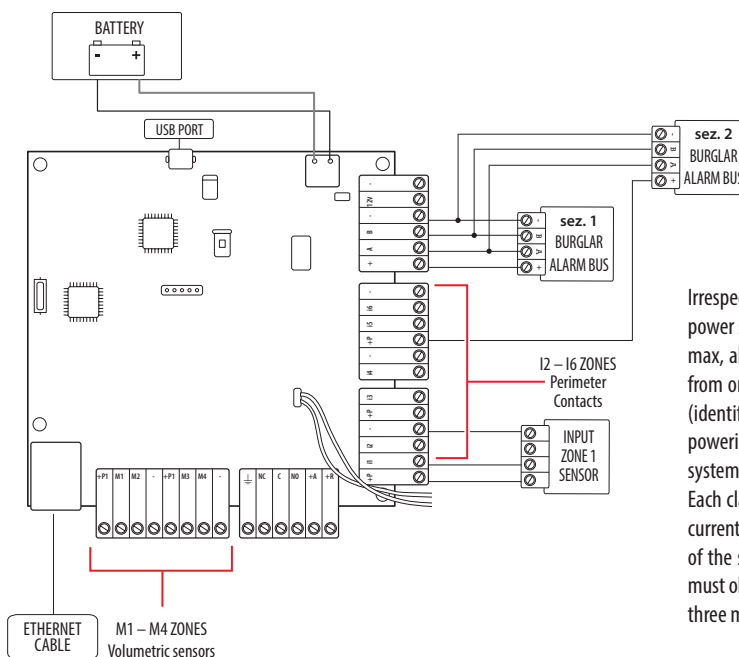


The primary power supply conductors must have a minimum cross-section of 1.5mm<sup>2</sup>

**Extended system wiring diagram**

Example of configuration and wiring of a central unit:

- 1 zone (i1) delayed in input and output; typically dedicated to the input port.
- 2 – 6 zones (from i2 to i6) NC not delayed for the perimeter sensors (contacts)
- 4 zones (from M1 to M4) not delayed with double parallel balancing (2x10kΩ; see next section) to be used for the internal volumetric sensors.



Irrespective of the enclosure and the corresponding power supply, with delivered current 1.7 A max or 3 A max, always consider that it is not possible to obtain from only one of the three clamps of the control unit (identified with +, +P and +P1) all the current for the powering of the sensors and the devices of the whole system.

Each clamp is in fact protected to deliver a maximum current of 1A; if the total absorption of the devices of the system exceeds this value, the wiring sections must obtain the power supply voltage from two of the three mentioned clamps, as shown in the example.

### Connections between the central unit and the other devices

The system devices communicate each other via BUS.

A twisted and shielded 2-pair multi-polar wire should be used for the connection between the central unit and the system devices:

- first pair for the system BUS (terminals A - B);
- second pair for the power supply voltage (+ - terminals).

The maximum length of the bus cable extended must not exceed 500 m. To select the most suitable wires, check absorptions and voltage drops on the basis of the length of the section. Rigorously respect the regulations of the country of use.

