



iSECURE – G3 Panel Alarm System

The Ministry of the Interior published ministerial orders in 2011 stating that all alarm systems must be certified by accredited bodies. They will have to certify the central alarm systems under standard UNE-EN 50131 for commercialisation in Spain.

The wording states the following:
"Product compliance will be assessed by certifying bodies accredited by the Spanish Accreditation Authority (ENAC), on the basis of standard UNE-EN 45011, which sets out the technical competence requirements for

product certifying bodies. These entities form part of the accreditable infrastructure for quality referred to in Chapter III of Royal Decree 2200/1995 of 28 December 1995.

Security systems installed after the entry into force of this Order must comply with the requirements and degrees of security provided for in this Order as established in UNE-EN 50131".

Indra has been manufacturing central alarm systems for different customers since the 1990s.

As a result of this order, a project was started to develop both hardware and software for a central alarm system, with the aim of passing the certification required by ministerial orders and offering it to current customers.

Characteristics

A central alarm system is developed for grade III certified by Applus under the 50131 standard. Using industrial range components suitable for working temperatures from -25° to +70° and a humidity of 75% without condensation.

The design of the central alarm system is fully modular to allow the best adjustment of the equipment to the market needs with the corresponding cost savings.

The control panel has two communication channels with the outside for sending and managing alarm signals. A primary (Ethernet) and a secondary one which can be either a switched telephone network (currently not used), or GSM or GPRS, the latter being currently the second most widely used. It also has three (3) communication ports RS-485.

The CPU or main board is equipped with an Atmel ARM9 microprocessor model AT91SAM9G20B, at 400 MHz with Linux operating system (micro kernel).

It is equipped with expansion modules (headends), which offer the possibility to expand the system up to 512 fully supervised alarm inputs and 128 relay outputs.

Another characteristic element is its switch-mode power supply, which has been designed in accordance with standard UNE-EN 50131-6 Power Supplies.

The power supply shall be 230 VAC and 12 VDC batteries. It shall supply an output voltage of 13.65 VDC under the battery voltage, though in the absence of 230 VAC, it shall be capable of 30 hours of autonomy.

The current supplied will power both internal electronics and field elements (sensors) mounted in the facilities.

It shall be equipped with a keyboard, which shall be a micro-processed unit with a unique hardware identifier element to identify any needed replacement. Up to 10 keyboards can be installed if the facility requires it.

The team is certified:

- UNE-EN 50131-1.
- UNE-EN 50131-3.
- UNE-EN 50131-6.
- UNE-EN 60950.
- UNE-EN 61000.
- Security Grade 3.
- Environmental Class II.
- CE Marking.



Some of our customers

- Caixabank, more than 2,000 units and 80,000 alarm points distributed throughout its branch network.
- Abertis, 250 units distributed throughout the different sites.
- Navantia, 200 units in its various shipyards and other facilities.
- Puerto de Barcelona, 5 units.

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