# SMART GUARD – SECURITY AND SMART HOME – NEXT GENERATION TECHNOLOGY



SMART GUARD CONTROL

## NEW GENERATION OF INTELLIGENT SECURITY ALARM SYSTEM

**SMART HI-TECH** created a new generation of technologically advanced alarm systems. **SMART GUARD (SG)** combines the latest innovations from the security and communications fields, to provide a number of hi-tech solutions for securing different sites such as homes, offices, warehouses, factories and other commercial and industrial buildings. The system is unique to itself as it goes beyond the conventional means of security by introducing different aspects from smart systems into the otherwise outdated traditional alarm system. This way, **SMART GUARD** enables real-time monitoring, control, alerting and support over the whole system. **SG** supports secure and encrypted communication with monitoring center and **CLOUD SMART GUARD(CloudSG).**
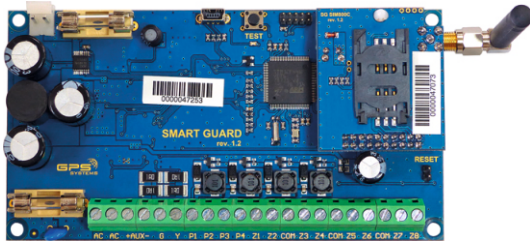
## BASIC SYSTEM FUNCTIONALITY:

- Up to 8 partitions, 500 users, 135 logical zones;
- Up to 48 outputs (PGM);
- Up to 8 keypads;
- Up to 32 RFID readers;
- Up to 6 expanders;
- Built-in two-way communication with control centre for monitoring, programming or updating all system components;
- Built-in integration with **CloudSG** – WEB and mobile application, allowing the user to real-time monitor, control, support and receive alerts for events within the whole system;
- GSM communicator, supporting full functionality of the **SMART DIALER**. Allows the system to send notifications and alerts to specified numbers when specific events occur.

## SG PANEL



### Description:

**Smart Guard Panel** has the ability to record and store every single event – up to 2000 events, with exact date and time of occurrence. By using simultaneously GSM, WiIFi and LAN communication, the data is transmitted to the monitoring, technical center and/or **CloudSG**. This increases the dependability of the system and guarantees that all events would be sent without data being manipulated or deleted. The system can be easily programmed both on site, through the keypad and/or PC, and remotely. All components from the system, including panel, keypads, proximity reader and expanders can be automatically and remotely configurated. Implemented is the **SMART** innovation **AUTO ARM**, enabling the system to automatically arm itself in accordance to a schedule or lack of activity. A further implementation – **Smart Door Control**, allows the system to control electromagnetic locks, without the need of additional power modules.

### System Functionality:

- 8 wired input split into 16 logical zones;
- Ability to choose between 9 types of zone connection schemes;
- 4 PGM outputs, independently programmable in different operational modes;
- 8 completely independent partitions;
- Access control with proximity reader;
- 9 connection schemes for zone setup;
- Ability to view history through the keybpad, PC and **CloudSG**;
- **SMART** diagnostics of the lead-acid battery state - information regarding capacity, load, charge, discharge and others;
- **SMART** control and diagnostics showing the status of "AUX" bus power supply. Built-in protection against short circuit and automatic recovery. Full data feed showing current power consumption of peripheral devices.

## SG KPD



### Description:

**Smart Guard Keypad** has a stylish and elegant design, perfectly fitted for every home, office, store or other production or commercial sites. The keypad includes a two-line screen and built-in LED backlight.

### System Functionality:

- 1 wired input split into 2 logical zones;
- 1 PGM output - supports **Smart Door Control (SDC)**;
- Built-in proximity reader;
- Touch-sensitive keypad with predefined buttons for basic operations;
- Built-in adjustable LED backlight;
- Built-in buzzer for audible alarm with adjustable volume levels;
- Built-in tamper for additional security.

*\* For more technical specifications visit:*

## www.smart-hitech.eu
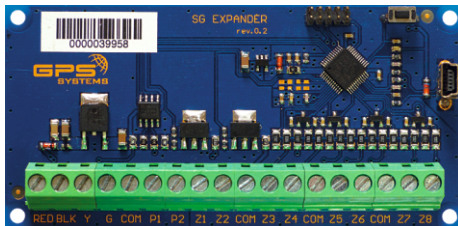
# SMART GUARD – SECURITY AND SMART HOME

## SG RFID

**Description:**
**SG FRID** – proximity reader, used for access control with 1 input (2 logical zones) and 1 output (PGM). **Supports Smart Door Control**.

**System Functionality:**
- Controls one selected partition;
- LED indication for recognised or rejected card;
- LED indication for current ARM/DISARM state;
- LED indication for SYSTEM BUS state;
- Built-in buzzer for audible alarm with adjustable volume levels;
- Built-in tamper for additional security.

## SG EXPANDER

**System Functionality:**
- Direct connection to the SYSTEM BUS;
- 8 wired inputs, extended to 16 logical zones;
- 9 connection schemes for zone setup;
- 2 PGM outputs, independently programmable to work in different modes.

## SG PIR

**Description:**
**SG PIR** is the latest generation of digital passive infrared motion detectors, designed for securing different sites such as homes, offices, warehouses, factories and other commercial and industrial buildings. Our teams of top specialists and engineers created a highly complex and sophisticated digital algorithms to drastically decrease accidental or false alarms. The detector supports advanced built-in temperature compensation and protection against white light. One of the biggest advantages of the **SG PIR** is the ability to support two-way bus communication with the control panel. This one of a kind innovation allows not only for on-site setup, but also for remote configuration which saves time, money and effort. **SG PIR** is compatible with all alarm systems as a conventional detector.

**System Functionality:**
- **SG PIR** is installed using conventional wiring but operates as an addressable and remotely programmable detector and communicates through **SG** power bus;
- All installed and connected **SG PIR** detectors can be individually recognised via the assigned zone
- Work range of 1.5m to 15m and coverage angle of 90°;
- Sophisticated algorithm for protection against accidental signals and false alarms;
- Built-in temperature compensation;
- Protection against white (daylight), radio and electrostatic disturbances;
- Built-in tamper for additional security.

*\* For more technical specifications visit:*

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## SMART HOME

**SMART GUARD** is a next generation alarm system, combining reliable security and **"SMART HOME"** automation, allowing the user to easily control different electric and electronic appliances and other external systems through different mobile devices. **SMART GUARD** has the ability to **ARM** according to previously set time-based schedules. Implemented **Smart Door Control** for further automation of electromagnetic locks, without additional power supply modules, reducing time and costs. This makes the **SG** one of the most innovative, dependable and secure alarm systems on the market!

## CLOUD PLATFORM

**SMART GUARD** is easily manageable through all mobile platforms. For complete and reliable event monitoring, the system supports simultaneous communication through GSM, Wi-Fi and LAN networks. The built-in GSM communicator has the full functionality of the **SMART DIALER** with the ability to alert and notify about events via call and SMS to or from specified numbers. The module further provides the option to view event and alarm history from the keypad, PC, **CLOUD SMART GUARD** and other platforms and devices.

## DATA ENCRYPTION

**SMART GUARD** has a built-in algorithm for additional high level code protection, ensuring communication encryption for remote access. In the event of an attempt to breach the system, we've engineered a highly intelligent software with automatic counteractive measures. By implementing two-way encryption and removing the option to delete events, the system guarantees advanced data security and integrity. It is impossible to manipulate or delete information, without it being sent to the monitoring centre.

## REMOTE SUPPORT

**SMART GUARD** is a one of a kind system, supporting automatic and remote software updates over different devices such as the panel, keypads, proximity readers, expanders and others. In the event of connection loss, the software updates can resume from their last point of progress resulting in saving data and avoiding dangerous loops. Other than on site, through the keypads or/and PC, it is possible to remotely support and program the system and its components. The innovative **SG PIR** sensor allows the supporting teams to remotely view its current state, troubleshoot and modify the settings.

**produced by**

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