Intelligent
security solutions

**Satel**®

UNCOMPROMISED
SECURITY FOR YOUR COMPANY

ALARM CONTROL PANEL
# INTEGRA

| | | | | | |
|---|---|---|---|---|---|
| **INTEGRA 256 Plus** <br> Alarm control panel mainboard | **INT-TSH** <br> Touchscreen keypad | **INT-KLCDS** <br> LCD keypad | **INT-E** <br> Zone expansion module | **CA-64 ADR-MOD** <br> Addressing module | **INT-RS Plus** <br> RS-232 interface for systems integration |
| **INTEGRA 128 Plus** <br> Alarm control panel mainboard | **INT-TSG** <br> Touchscreen keypad | **INT-SK-GR** <br> Partition keypad | **ACU-120** <br> Wireless system controller | **GSM LT-1 / GSM LT-2** <br> GSM modules replacing telephone line | **INT-R** <br> Universal expander for card/chip readers |
| **INTEGRA 64 Plus** <br> Alarm control panel mainboard | **INT-KSG** <br> Touch keypad | **INT-S** <br> Partition keypad | **ACU-270** <br> Wireless system controller | **GSM-4 / GSM-5** <br> Backup communication path modules for telephone line | **CZ-EMM / CZ-EMM2 CZ-EMM3 / CZ-EMM4** <br> Proximity card readers |
| **INTEGRA 128-WRL** <br> Alarm control panel mainboard | **INT-KLFR** <br> LCD keypad with proximity card reader | **INT-CR** <br> Proximity card arm/disarm device | **ARU-100** <br> ABAX repeater | **GPRS-T6** <br> GPRS/SMS reporting module with buffer power supply | **INT-SZ** <br> Code lock |
| **INTEGRA 128** <br> Alarm control panel mainboard | **INT-SF** <br> Partition keypad | **INT-RX-S** <br> 433 MHz keyfob receiver expansion module | **INT-PP** <br> Subpanel module | **GPRS-T2 / GPRS-T4** <br> GPRS/SMS reporting modules | **INT-SZK-GR** <br> Code lock |
| **INTEGRA 64** <br> Alarm control panel mainboard | **INT-KLCDR** <br> LCD keypad with proximity card reader | **INT-SCR-BL** <br> Multi-function keypad with proximity card reader | **INT-ORS** <br> DIN rail compatible outputs expansion module | **GPRS-T1** <br> GPRS/SMS reporting transmitter | **INT-VG** <br> Remote interactive voice module |
| **INTEGRA 32** <br> Alarm control panel mainboard | **INT-KLCD** <br> LCD keypad | **T-1 / T-2 / T-4** <br> Remote controller keyfobs (433 MHz) | **INT-IORS** <br> DIN rail compatible zones and outputs expansion module | **ETHM-1 Plus** <br> TCP/IP communication module for INTEGRA control panels | **INT-VMG** <br> Voice message module |
| **INTEGRA 24** <br> Alarm control panel mainboard | **INT-KLCDK** <br> LCD keypad | **P-2 / P-4** <br> Remote controller keyfobs (433 MHz) | **INT-O** <br> Output expansion module | **INT-KNX-2** <br> KNX integration module | **INT-AV** <br> Alarm acoustic verification module |
| **INT-TSI** <br> Touchscreen keypad | **INT-KLCDL** <br> LCD keypad | **INTEGRA CONTROL** <br> Application for remote supervision of INTEGRA alarm system | **INT-ADR** <br> Addressable bus expansion module | **INT-FI** <br> Fiber-optic interface | **INT-AVT** <br> Alarm acoustic verification panel |

Advanced devices, such as the INTEGRA family control panels, in addition to their primary function – to detect and inform about the entry of an intruder, can in a much broader sense ensure the safety and security of your household, and take care of the comfort of your everyday life through the implementation of home automation basics.

# INTEGRA

Security is also a very important factor for business. Professional applications require specific solutions – the overriding goal here is maximum security without compromise. The INTEGRA control panels set a new standard in this area. A number of solutions, both hardware and software ones, qualifies them for installations requiring the top class security – this is why they belong to the world's finest advanced control panels.



system management
and supervision

**INTEGRA
system**

**INTEGRA
system**

automation

access
control

I&HAS
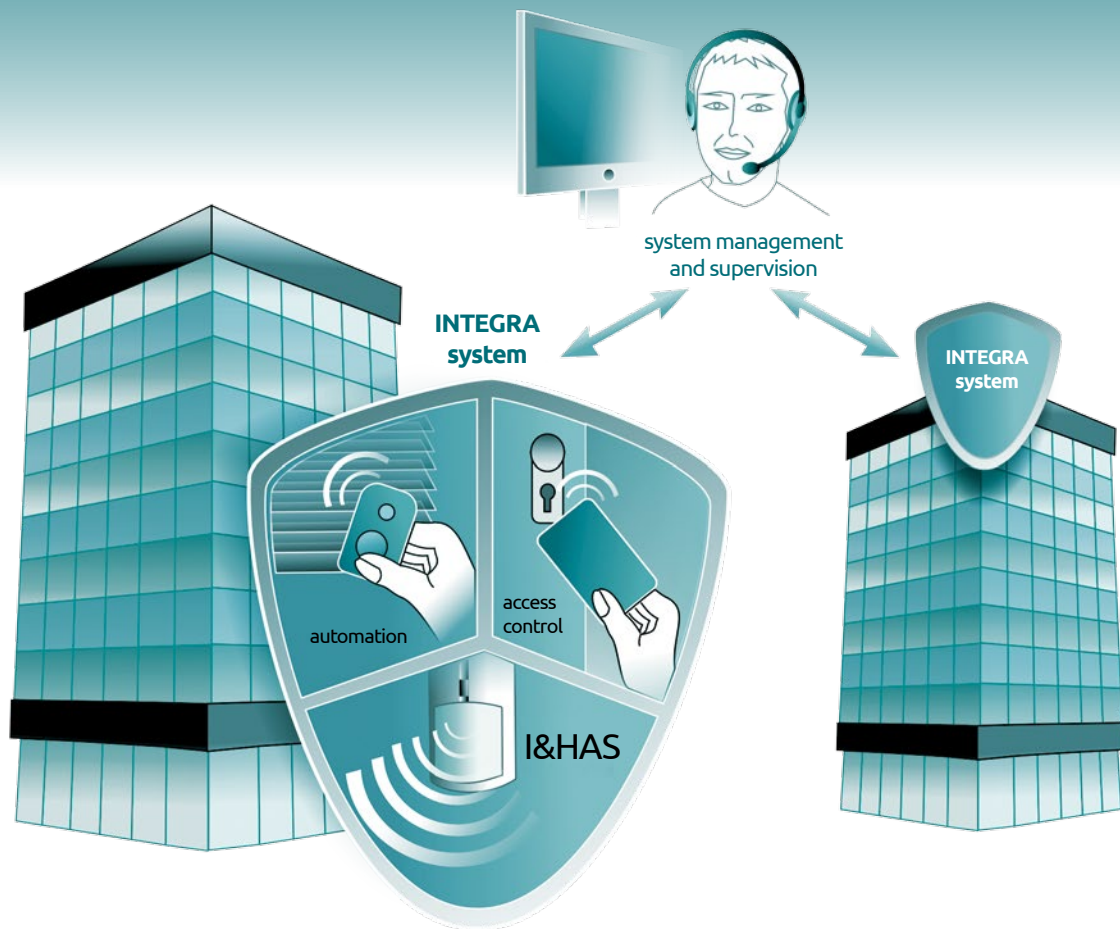
## BRIEF DESCRIPTION OF INTEGRA ALARM CONTROL PANELS

The INTEGRA control panels are state-of-the-art and advanced devices which not only enable making the top-class security systems, but also provide access control and automatic operation functions for the so-called „smart building". Their construction incorporates experience gathered by the SATEL company during over 25 years of designing the renowned and reliable electronic alarm devices. This modern series

includes eight control panels based on common solutions and differing among themselves by the number of supported devices and expansion capabilities. Such a choice makes it possible to precisely customize the hardware resources to specific requirements of a particular project and thus contribute to cost-effectiveness.

## SECURITY

### Standards compatibility

Highest security offered by INTEGRA control panels is certified by independent entities specializing

in the evaluation of solutions applied in security equipment: Norwegian DNV, Swedish SBSC, Czech TREZOR TEST or Belgian INCERT. The certificates confirm equipment compliance with the strict requirements included in the industry European standards from the EN50131 series for Grade 3 devices for INTEGRA Plus series control panels and Grade 2 for other INTEGRA control panels.

### Unique technical solutions

INTEGRA control panels use advanced solutions, ensuring highest security level in every situation: entering two separate codes to gain access to

selected zones, monitoring security personnel rounds or defining access time windows are just some of the examples of the technologies used. Even more advanced designs can be found in INTEGRA Plus control panels solutions which are equipped, among others, with: two-section power supply system with extended self-diagnostic tools, masking signals handling with the use of programmable EOL resistance tri-parameter lines and USB port for easy and fast programming of the control panel. These solutions make it possible to create a system compliant with stringent safety rules required to be met in facilities of the highest risk level.

### System management and supervision (GUARDX)

Using the features offered by the GUARDX application, which is included in the system delivery set, the user can exercise both local and remote supervision and management of the security alarm system. This functionality makes it possible not only to manage privileges of system users, but also to monitor in real time the status of individual partitions and zones in the graphic mode. Optionally, the remote control of the system by users having a suitable authority level is also possible. The remote operation capability includes both telephone connection and TCP/IP communication, e.g. through Internet. All these features can be used in the security management center for round-the-clock supervision support.
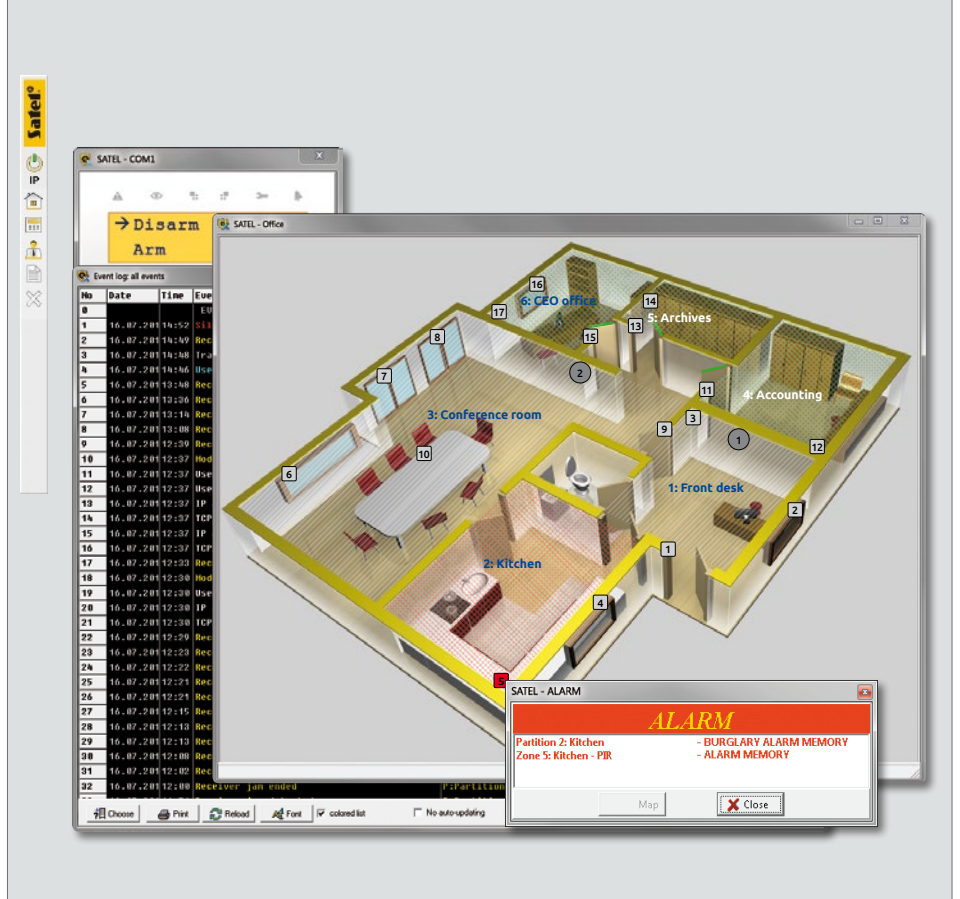
# COMMUNICATION FUNCTIONS

### Remote control

The capability of remote system management makes it possible to rapidly respond to any needs as they arise, without the necessity of direct intervention in the system. Owing to such functionality you can, for example, connect with the control panel through Internet, in order to add a new user, or to change the system configuration. Additionally, using the STAM-2 Pro system allows you to centralize the management and supervision over many separate INTEGRA systems installed in different departments of the company.

### Monitoring

Efficient transmission of information to the alarm receiving center is one of the key functions of the security system. To this effect, the INTEGRA control panels can use not only the integrated telephone communicator, but also additional modules enabling GSM/GPRS and TCP/IP communication (e.g. in LAN, VLAN networks or via Internet).

## LONG-TERM INVESTMENT INTO SECURITY

### Hard-wired and wireless expansion

The INTEGRA system can be expanded at all times with the use of special expansion modules or by means of wireless devices. In this way, it is possible not only to increase the number of connectable detectors, but to develop functionality or facilitate everyday operation of the system as well.

### Capability of adding new features by updating the firmware

The never ending work conducted by SATEL's engineers results in development of new versions of firmware for INTEGRA control panels. They enhance the already advanced functionality, adding new features and support for extra devices interacting with the control panel. Owing to their design, the firmware in INTEGRA control panels can be easily updated at any moment by means of connected computer, dismantling of the control panel being unnecessary.

## EASE OF USE

### Keypads, key fobs, cards, mobile application

The engineers working for the SATEL company are fully aware that a crucial aspect in designing the security alarm equipment is to minimize the possibility of user errors. This is why so much effort is taken to make the user interface intuitive and simple, but at the same time suitable for the advanced functionality offered by the INTEGRA control panels. Because of their flexibility, the system can be controlled by means of codes entered from keypads, as well as by using key fobs or proximity cards, or remotely, via mobile application. Thus you can choose the most appropriate solution, best suited for the specific situation.

### Available functions matched with privileges

Selection of functions for particular users can be individually tailored by the system administrator. This is another solution which is meant as a safeguard against possible mistakes made when the system is operated by less experienced users, because of which they only have access to the options necessary for them.

## QUALITY AND RELIABILITY

### Quality management system according to ISO 9001:2000

The SATEL company maintains a quality management system, implemented in 2002 and certified by Det Norske Veritas auditors. A number of its component procedures is aimed at guaranteeing continuous improvement in every field of the company activities, ensuring high quality of the devices and full satisfaction of Customers.

### Advanced manufacturing technology

INTEGRA control panels are made on fully automated assembly lines, using the surface-mount technology (SMD). When combined with the component base of world's leading manufacturers, it ensures practically trouble-free operation of devices during their entire life time.

### Full-scope production testing

All pieces of devices manufactured by SATEL company, including INTEGRA control panels, undergo a complete and meticulous test, carried out on a dedicated, computer-controlled stand. Therefore the device that reaches the Customer thoroughly tested, which practically eliminates the problem of factory defective products.

# VERSATILITY

## Advanced security system

First and foremost, the INTEGRA control panels mean an advanced security system with great potential. State-of-the-art solutions, a range of available expansion modules and highly developed communication functions put it on the shortlist of world's best security alarm installations.

## Access control

INTEGRA control panel also mean access control system: if fitted with special modules, they can optionally control door opening by means of proximity cards. The access control can be in a simple way combined with alarm functions, thus providing a coherent system with a functionality which exceeds separate solutions.

## Automation system and integration

Extensive automatic control functions are yet another asset of the INTEGRA control panels. They are equipped with programmable timers and logical functions which may be used to design intelligent building automation systems.

Additionally, the INT-KNX-2 module allows convenient control over KNX-bus devices. Another advantage of the INTEGRA control panels is the possibility of tight integration of security and automations functions. This provides users with, e.g. simple methods of deactivating building illumination when the standby mode is activated.

INTEGRA control panels enable communication with other systems via an open protocol. Two-way cooperation allows full integration with solutions provided by other manufacturers.

# SPECIFICATIONS OF CONTROL PANELS

| INTEGRA | 24 | 32 | 64 | 128 | 64 Plus | 128 Plus | 256 Plus | 128-WRL |
|---|---|---|---|---|---|---|---|---|
| | SYSTEM FEATURES | | | | | | | |
| EN50131 Security grade | Grade 2 | Grade 2 | Grade 2 | Grade 2 | Grade 3 | Grade 3 | Grade 3 | Grade 2 |
| Maximum number of system zones | 24 | 32 | 64 | 128 | 64 | 128 | 256 | 128 |
| Maximum number of outputs | 20 | 32 | 64 | 128 | 64 | 128 | 256 | 128 |
| Partitions | 4 | 16 | 32 | 32 | 32 | 32 | 32 | 32 |
| Users users + masters + installer | 16+1+1 | 64+4+1 | 192+8+1 | 240+8+1 | 192+8+1 | 240+8+1 | 240+8+1 | 240+8+1 |
| Event log | 439 | 439 | 5887 | 22,527 | 5631 | 22,527 | 24,575 | 21,503 |
| | | | | | | | | |
| | SYSTEM OPERATION | | | | | | | |
| Number of keypads | 4 | 4 | 8 | 8 | 8 | 8 | 8 | 8 |
| Number of partition keypads | 32 | 32 | 64 | 64 | 64 | 64 | 64 | 32 |
| Maximum number of card readers | 64 | 64 | 128 | 128 | 128 | 128 | 128 | 64 |
| | | | | | | | | |
| | COMMUNICATION | | | | | | | |
| Support for wireless devices | | | | option | | | | built-in |
| Communicator | | | | PSTN telephone | | | | GSM/GPRS |

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Intelligent
security solutions

## MORE THAN **25 YEARS OF EXPERIENCE**

Professional protection of each type of premises, as well as people staying therein, through advanced, yet functional and cost-effective solutions – these few words may serve as the shortest description of the mission of SATEL, a manufacturer of security systems with involvement of 100% Polish capital. Due to integrity in business and a special emphasis on high quality and a wide range of products offered, the SATEL brand has been highly appreciated in the industry for over 25 years.

This philosophy of management and hard work of more than 280 SATEL's employees produce tangible results. The wide range of over 400 offered products provides countless opportunities to create security, home automation, fire alarm, access control and monitoring systems, tailored to the individual needs of each user. At the same time, these systems meet all requirements prescribed by Polish and international regulations and industry standards.

Bringing the functionality of devices into line with current requirements and expectations of the market with the use of the latest technologies is one of the main objectives of SATEL. For this reason the design and production departments of the Company are continuously being modernized and expanded. A natural consequence of all actions aimed at the production of top-quality devices was the introduction of the quality management system conforming to ISO 9001:2000 in 2002. Regardless of this certification, SATEL also carries out a full functional test of all products leaving the production line, thus ensuring reliability of the manufactured devices. Focusing on modern design and attaching importance to the highest levels of quality and functionality of its products, SATEL has gained many satisfied customers not only in Poland but also in more than 50 markets worldwide.