



Satel®

MICRA
wireless alarm system

**reliable protection
for small-size buildings**

The **MICRA** system is an ideal solution wherever you need a simple and reliable alarm system with GSM communicator.

MICRA

The MICRA system has been designed primarily for protection of small-sized buildings and facilities. The optional use of wireless motion detectors and reed switch detectors provides optimal protection against burglary, while the wireless smoke, flood and glassbreak detectors can provide additional safety. Operating the system by means of remote control keyfobs, wireless keypad or mobile phone is simple and intuitive. Owing to its analog inputs, the MICRA can be also used for supervision over technical devices, providing information on exceeding the critical parameters, such as temperature or pressure.

Simple and quick installation, easy configuration and intuitive operation are the main advantages of the MICRA module.



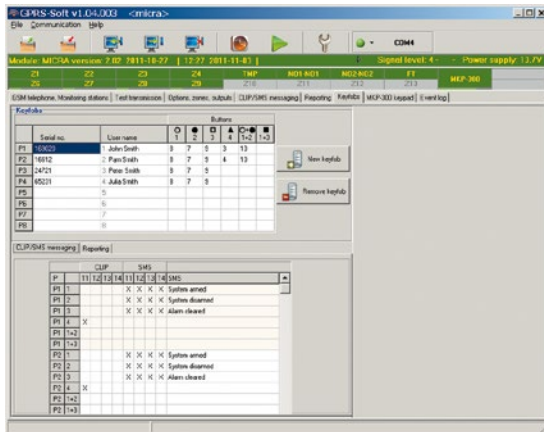
Versatility of application

The MICRA alarm module versatility stems from its capability to support both traditional hardwired detectors, as well as dedicated wireless ones. It is thus possible to quickly and easily implement a basic alarm system without having to lay any cables and, if necessary, supplement it with some less typical detectors, using standard wired devices. Additionally, the built-in buffer power supply unit with battery backup provides long-time continuous protection even in the event of 230 V power failure. The MICRA system performs ideally in protection of small-sized buildings and facilities, such as **kiosks, boutiques, holiday cottages, garages and small workshops**, but the MICRA's range of applications can be much wider. Given its compact design, the module can provide mobility for the installation, if necessary. It is therefore a perfect solution for temporary protection of, for example, **construction sites**.



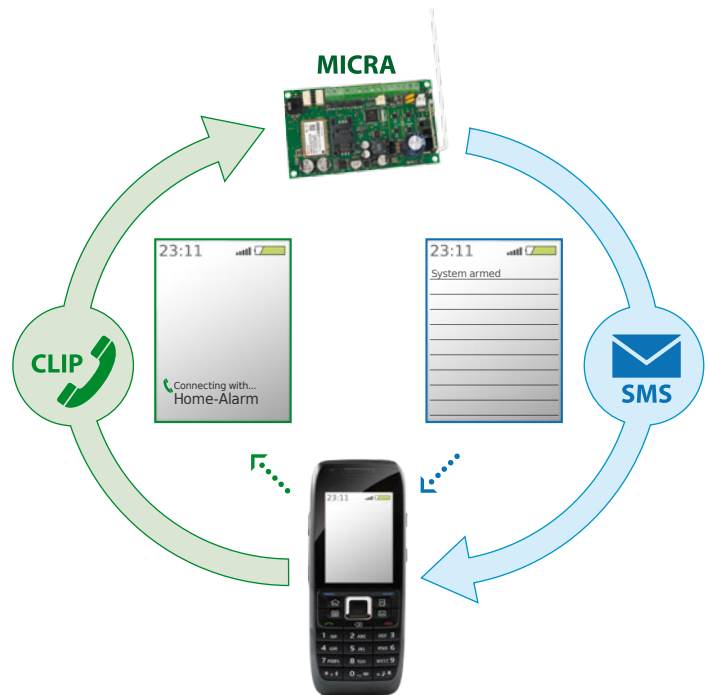
simple and easy to install • intuitive

reliable protection for wireless alarm system



Easy to install and configure

Because of the use of wireless communication, installation of the MICRA system is maximally simplified. **A complete alarm system can be installed in less than an hour.** Configuring the MICRA module does not require skills necessary for programming sophisticated control panels. To configure a module, simply connect it to the computer with a suitable cable and run the appropriate application. The application to be used for this purpose provides an easy and quick way to adjust the module to suit your needs, e.g. to program telephone numbers, add new detectors or configure remote control keyfobs.



Simple and intuitive operation

Daily operation of the MICRA system could not be simpler: you can arm and disarm the system using **radio transmitter keyfobs**, just as with car alarms. As a consequence, the training of end users of the system is short, and the possibility of making mistakes during operation minimized. The same remote control keyfob that allows you to arm or disarm the system can also be used, for example, as a panic button or to open the garage gate remotely. If you want the system to be able to be controlled with codes, as in traditional alarm systems, you can expand the MICRA system by adding a dedicated **wireless keypad**. The advantages of such a solution can be appreciated, for example, in the protection systems serving technical facilities to which various service crews need to have access. The unique capability of **operating the system via mobile phone** is another feature worth mentioning. Just send an SMS or dial into the MICRA module (so-called "CLIP") to arm or disarm the system. For those who use mobile devices based on ANDROID system application MICRA CONTROL will be a perfect choice. It enables basic system operation via smartphones and tablets. This App offers, additional to basic security features, possibility to control devices connected to the alarm module (HVAC, light, garage doors, roller blinds, etc.).

small-size buildings



Reliable communication

The MICRA module is provided with a GSM / GPRS communicator, with which it can not only implement **SMS notification of events via SMS**, but also transmit information to alarm monitoring companies. In addition, **remote operation via SMS** is possible, so you can not just arm/disarm the system, but you can even control devices connected to the module, like the garden lights or driveway gate. A unique feature of the MICRA module is also its capability of **acoustic alarm verification**, or remote audio monitoring by phone of what is happening inside the protected premises. Thus it is possible to remotely assess the possible causes of the alarm signal and to avoid unnecessary costs associated with unneeded intervention.

Reliability and security

The MICRA module, like other SATEL's devices, feature top quality workmanship and well-thought-out technical solutions. This means not only a guarantee of trouble-free operation, but also the appropriate level of security. For example, the digital wireless transmission with rolling code prevents grabbing and copying of the remote control code and disarming by unauthorized persons. Another example of the adopted technical solutions is automatic diagnostics of the main components of the system, through which the system is able to detect and report, for example, a network failure, or the need to replace the battery.

Analog inputs

Support for analog inputs opens a number of new applications for the MICRA module. With this feature, the module can successfully **supervise the operation of various industrial equipment and installations**, especially those located in remote technical buildings. The MICRA module can perform **telemetric measurements**, periodically sending information on the values of voltage signals on its analog inputs. Additionally, a properly configured MICRA can notify about exceeding the critical values of certain process parameters (e.g. temperature, pressure, rpm) which are represented by a voltage signal.

control by mobile phone

MICRA



wireless alarm system

MICRA ALARM MODULE

The heart of MICRA system is the alarm module that receives signals from the wireless and wired detectors, equipped with GPRS monitoring and SMS notification functions. The built-in power supply unit provides continuous system operation when the 230 V supply is not available, and the module outputs allow control of devices connected to it, such as garage door.



MMD-300 / MMD-302 • MGD-300 • MFD-300



MSD-300 • MPD-300



MKP-300 • MPT-300

MMD-300 / MMD-302 MAGNETIC DETECTOR

Magnetic detector of door / window opening, representing the "first line of defense". With MMD-300/302, the alarm system will react to intrusion before the intruder manages to get into the protected area. Powered by a lithium battery to ensure many years of work without having to replace the source of power supply.

MGD-300 GLASSBREAK DETECTOR

The MGD-300 detector allows for the expansion of the MICRA system with glassbreak detection for plate, tempered and laminated glass. Designed for securing space with large glazed areas.

MFD-300 FLOOD DETECTOR

The MFD-300 flood detector is designed for leak detection in areas with water installations, for example, in the kitchen, bathroom or laundry room. The external probe is connected to the detector using a flexible cable, which simplifies installation even in hard to reach places.

MSD-300 SMOKE AND HEAT DETECTOR

Smoke and heat detector, whose task is early detection of a developing fire. In addition to providing information about a threat to the control panel, the MSD-300 detector can warn of the danger by using the built-in sounder. In contrast to the conventional smoke detectors, this device will react not only to visible smoke, but also to a rapid increase in temperature, providing more complete protection against the danger of fire.

MPD-300 MOTION DETECTOR

Motion detector, whose role is to detect an intruder moving within the area protected by the system. As it is immune to pets, the MPD-300 can provide protection even if small pets, such as small dogs or cats, are moving within its range when the system is armed. The lithium battery used to power the device ensures many years of work without having to replace it, so the system is as easy to operate as the traditional wired solutions.

MKP-300 WIRELESS KEYPAD

Wireless keypad for the MICRA system, which allows you to arm/disarm the system and control devices connected to the module without having your own keyfob. This makes it an ideal control solution where the system is expected to be operated by many different people.

MPT-300 REMOTE CONTROL KEYFOB

Universal remote control keyfob to operate the MICRA system. It not only enables the system to be easily armed and disarmed, but also allows you to call for help (start the panic alarm), or control other devices connected to the MICRA system, for example, the garage gate. Its additional advantage is the possibility to individually configure each button, so as to better adjust its performance to your needs.

Number of wireless detectors	8
Number of wired inputs (standard/tamper)	4/1
Number of outputs (relay/OC)	2/1
Number of keyfobs/wireless keypads	8/1
Number of phones to be notified	4

Over 20 years 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 nearly 25 years.

This philosophy of management and hard work of more than 250 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.

Satel[®]

Schuberta 79, 80-172 Gdansk, POLAND
tel. +48 58 320 94 00; fax +48 58 320 94 01
e-mail: trade@satel.pl

www.satel.eu