

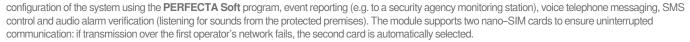
PERFECTA 64 M

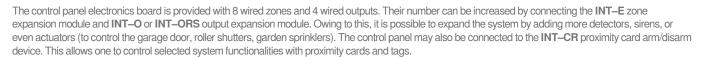
ALARM CONTROL PANEL

The PERFECTA 64 M alarm control panel is designed to protect various premises such as flats, single–family houses, terraced houses, offices, etc. It provides protection as required by EN 50131 for Grade 2. The control panel is simple to configure as well as easy and intuitive to operate using keypads, including touchscreen models. Functionalities of the alarm system can also be controlled remotely using the PERFECTA CONTROL mobile application and remote control keyfobs. The ETHM–1 Plus Ethernet module can also be connected to the control panel – it can be used for both communication with the mobile application* and event reporting, also in Dual Path Reporting mode.

The PERFECTA 64 M control panel makes it possible to create wired and wireless systems – you can connect to it an **ABAX 2** system controller (**ACU–220** or **ACU–280** operating in the frequency band of 868 MHz) or **PERFECTA–RF**, i.e. the **MICRA** wireless system module (frequency band of 433 MHz). Alternatively, the **INT–RX–S** keyfob receiver expansion module may be connected to the control panel.

The PERFECTA 64 M control panel is equipped with a cellular communicator supporting 2G and 4G networks. This feature enables the use of a mobile application with push notifications support, remote





A system based on the PERFECTA 64 M control panel can be divided into four partitions with a choice of three arming modes (day, night or full). Such partitions may be independent of each other or may feature common sections (specified zones).

The system can be configured in two ways: from a computer with the PERFECTA Soft program installed (locally – connection via RS–232 (TTL) port, remotely – using data transmission over a cellular network** or via Ethernet*), as well as from a keypad.

- compliance with EN 50131 Grade 2
- system division into 4 partitions:
 - o 3 arming modes in each partition
 - o option to assign a zone to 1~4 partitions
 - o user-controlled or timer-controlled
- 8 wired programmable zones on the control panel mainboard:
 - o configuration options: NO, NC, EOL, 2EOL/NO, 2EOL/NC
 - $\circ\,$ support for roller shutter and shock detectors
- up to 64 programmable zones
- support for "IP zones" receiving HTTP notifications sent by IP cameras or other IoT devices when cooperating with ETHM-1 Plus module
- 4 wired programmable outputs on the control panel mainboard:
 - o 2 high-current outputs
 - 2 OC-type low-current outputs
- up to 64 programmable outputs (including 4 dedicated outputs to control sirens of the MICRA system)
- built-in modules:
 - o cellular communicator 2G/4G with two nano-SIM slots (SMS, reporting to a monitoring station, mobile application, push notifications)
 - o voice (playback of voice messages for the telephone notification)





- o acoustic alarm verification (listening for sounds)
- · communication bus for connecting:
 - INT-TSH210, INT-TSH2R, INT-TSG2R, INT-KSG2R, PRF-LCD keypads
 - INT-E, INT-O, INT-ORS expansion modules
 - ABAX 2 wireless system controllers: ACU-220 or ACU-280***
 - INT-RX-S keyfob receiver expansion module***
 - INT-CR, INT-IT2 proximity card arm/disarm devices
 - ETHM-1 Plus ethernet communication module
- communication interface for connecting the PERFECTA-RF MICRA wireless system module***
- maximum number of supported wireless devices:
 - ABAX 2 system: up to 2 keypads / up to 48 detectors, sirens or other devices
 - o MICRA system: up to 2 keypads / up to 64 detectors / up to 4 sirens
- · support for wireless keypads:
 - o PRF-LCD-A2 in the ABAX 2 system
 - PRF-LCD-WRL in the MICRA system
- · system control using:
 - keypads
 - PERFECTA CONTROL mobile application
 - o remote control keyfobs
 - proximity cards and tags
- local or remote software (firmware) updates
- passwords:
 - 62 user passwords
 - 1 service password
- editable names (of users, partitions, zones, outputs and modules) for easy control and supervision of the system
- 8 timers with exceptions setting capability
- 8 thermostats
- memory for 3584 events
- automatic diagnostics of the system main components
- built-in switching power supply:
 - o over-current protection
 - o battery deep discharge protection
 - o battery charging current control
- programming of control panel settings:
 - $\circ \ \ \text{locally -- a keypad or computer with the PERFECTA Soft program installed, connected to the control panel RS-232 (TTL) port}$
 - remotely a computer with the PERFECTA Soft program installed, connecting to the control panel using data transmission over a cellular network** or via Ethernet*



^{*} in cooperation with the ETHM-1 Plus module additionally connected using the RS232-RSTTL cable with converter

^{**} support for data transmission using the LTE/EDGE/GPRS technology - depending on the cellular network capabilities

^{***}NOTE – it is possible to connect only one of the above–mentioned devices: ACU-220/ACU-280 controller, PERFECTA-RF module or INT-RX-S keyfob receiver expansion module. The system cannot use wireless ABAX 2 and MICRA devices simultaneously.



TECHNICAL DATA

| Voice messages | 16 |
|--|-------------------|
| Event log | 3584 |
| Partitions | 4 |
| Timers | 8 |
| Board dimensions | 160 x 68 mm |
| Operating temperature range | -10+55°C |
| Supply voltage (±15%) | 18 V AC, 50-60 Hz |
| Standby mode current consumption | 190 mA |
| Max. current consumption | 490 mA |
| Weight | 110 g |
| Maximum humidity | 93±3% |
| Battery failure voltage threshold (±10%) | 11 V |
| Battery cut-off voltage (±10%) | 10,5 V |
| Environmental class according to EN50130-5 | II. |
| Maximum current consumption from the battery | 130 mA |
| Programmable wired inputs | 8 |
| Maximum number of programmable inputs | 64 |
| Programmable wired outputs | 4 |
| Maximum number of programmable outputs | 64 |
| Supplying outputs | 2 |
| Communication buses | 1 |
| Keypads | up to 4 |
| Security grade according to EN 50131 | Grade 2 |
| Recommended transformer | 40 VA |
| Users | 62 |
| Current-carrying capacity of KPD output | 500 mA / 12 V DC |
| Output voltage range | 10,5 V14 V DC |
| Battery charging current | 500 mA |
| Power supply output voltage | 12 V DC ±15% |
| Telephone numbers for notification | 8 |
| Power supply output current | 2 A |
| Low current programmable outputs rating | 25 mA / 12 V DC |
| Current-carrying capacity of programmable high-current outputs | 1000 mA / 12 V DC |
| AUX output | 500 mA / 12 V DC |
| Standby current draw from battery | 130 mA |