

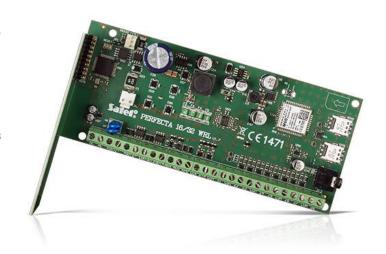
PERFECTA 16-WRL

ALARM CONTROL PANEL

The **PERFECTA** family control panels are designed to protect small and medium–sized premises, such as apartments, detached houses, segments of terraced houses, offices, small businesses, etc. They provide protection to the requirements of Grade 2 EN 50131.

PERFECTA 16–WRL is characterized by simple configuration, intuitive operation and easy control. The control panel allows you to create a wireless system and a hybrid system (combination with the traditional wired system). Two-way communication with the wireless PRF-LCD-WRL keypads and MSP-300 R sirens is realized at 433 MHz. In the wireless system, the MICRA series detectors and the new MPT-350 keyfobs are also used. This allows you to easily expand the existing system, without having to lay extra cable runs.

The built-in GSM/GPRS module provides a wide range of features: interaction with the functional and intuitive **PERFECTA CONTROL** application for mobile devices (with support for PUSH messaging), remote configuration using the **PERFECTA Soft** program, reporting events (e.g. to the monitoring station security agency), voice messaging, control via SMS and audio verification (listening in to the sounds from the protected premises). Two nano–SIM cards are



supported to ensure continuity of communication: if any problems occur with the first operator range, the second card is automatically selected.

The control panel electronics board is provided with wired 8 zones and 4 outputs. Their number can be increased by connecting the extension modules: INT–E zone expander and INT–O or INT–ORS output expanders. This allows you to expand the system by adding more detectors, sirens, and even actuators (to control the garage door, roller shutters, garden sprinklers).

The control panel enables the object (premises) to be divided into two partitions, with three armed modes to select from (day, night, full). Each zone can be assigned to one or both of the supervised areas.

The system can be configured in two ways: using the intuitive PERFECTA Soft program (from a computer connected with RS-232 (TTL) cable or remotely) and from a keypad, using shortcuts in the service menu.

- compliance with EN 50131 Grade 2
- from 8 to 16 programmable wired zones:
 - $\circ\,$ selectable configuration: NO, NC, EOL, 2EOL/NO, 2EOL/NC
 - support for roller shutter detectors / vibration detectors
- from 4 to 12 programmable wired outputs
- 2 power outputs on mainboard
- additional 4 wireless outputs for operating MSP-300 wireless sirens
- built-in modules:
 - $\circ \ \text{GSM/GPRS with 2 SIM slots (SMS, reporting to monitoring station, mobile application, PUSH notifications)}\\$
 - $\circ\,$ voice (playback of voice messages for telephone messaging purposes)
 - o audio alarm verification (listening in)
- integrated radio module operating at 433 MHz, supporting encrypted wireless communication:
 - bidirectional with PRF-LCD-WRL keypads and MSP-300 R sirens
 - unidirectional with MICRA series detectors, MPT-350 keyfobs and MRU-300 radio signal repeaters
- system division into 2 partitions:
 - 3 detection modes in each partition
 - optional assignment of each zone to two partitions
 - o user control or timer control option
- communication bus for connecting keypads (PRF-LCD) and expansion modules (INT-E, INT-O, INT-ORS)
- system control by using:
 - keypads (up to 4): wired PRF-LCD or wireless PRF-LCD-WRL
 - PERFECTA CONTROL mobile application



- MPT-350 remote control keyfobs (up to 15)
- firmware updates available
- passwords:
 - 15 user codes
 - 1 service code
- · editable names (of users, partitions, zones, outputs and modules) for easy control and supervision of the system
- timers:
 - o 8 timers with exceptions setting capability
- memory of 3584 events
- automatic diagnostics of main components of the system
- built-in switching power supply:
 - overload protection
 - o battery deep discharge protection
 - battery charging current control
- programming control panel settings:
 - o locally keypad, computer with PERFECTA Soft program installed, connected to the control panel RS-232 (TTL) port
 - $\circ\,$ remotely computer with PERFECTA Soft program installed, connecting to the control panel via GPRS





TECHNICAL DATA

| W | |
|--|------------------------------|
| Voice messages | 16 |
| Event log | 3584 |
| Partitions | 2 |
| Timers | 8 |
| Board dimensions | 160 x 110 mm |
| Operating temperature range | -10+55 °C |
| Supply voltage (±15%) | 18 V AC, 50-60 Hz |
| Standby mode current consumption | 220 mA |
| Max. current consumption | 240 mA |
| Weight | 115g |
| Maximum humidity | 93±3% |
| Current consumption from battery - standby | 120 mA |
| Battery failure voltage threshold (±10%) | 11 V |
| Battery cut-off voltage (±10%) | 10,5 V |
| Operating frequency band | 433,05 ÷ 434,79 MHz |
| Radio communication range (in open area) | w zależności od urządzenia m |
| Environmental class according to EN50130-5 | |
| Maximum current consumption from the battery | 180 mA |
| Programmable wired inputs | 8 |
| Maximum number of programmable inputs | 16 |
| Programmable wired outputs | 4 |
| Maximum number of programmable outputs | 16 |
| Supplying outputs | 2 |
| Communication buses | 1 |
| Keypads | up to 4 |
| Security grade according to EN 50131 | Grade 2 |
| Recommended transformer | 40 VA |
| Users | 15 |
| 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 |