

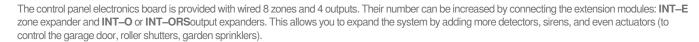
PERFECTA 16

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 EN 50131 Grade 2.

The system based on the **PERFECTA 16** control panel is characterized by quick installation, simple configuration as well as easy and intuitive operation. In addition to the basic, traditional control, the control panel also offers more modern methods: by using the functional and intuitive **PERFECTA CONTROL** application for mobile devices or remote control keyfobs operating in the 433 MHz frequency band (after connecting the **INT-RX-S** module).

The built-in GSM/GPRS module provides a wide range of features: interaction with mobile application with support for PUSH messages, 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 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:
 - selectable configuration: NO, NC, EOL, 2EOL/NO, 2EOL/NC
 - $\circ\,$ support for roller shutter detectors / vibration detectors
- from 4 to 12 programmable wired outputs
- 2 power outputs on mainboard
- built-in modules:
 - GSM/GPRS with 2 SIM slots (SMS, reporting to monitoring station, mobile application, PUSH notifications)
 - voice (playback of voice messages for telephone messaging purposes)
 - o audio alarm verification (listening in)
- system division into 2 partitions:
 - o 3 detection modes in each partition
 - o optional assignment of each zone to two partitions
 - o user control or timer control option
- communication bus for connecting keypads (PRF–LCD), expansion modules (INT–E, INT–O, INT–ORS) and 433 MHz keyfob receiver expansion module (INT–RX–S)
- system control by using:
 - PRF-LCD keypads (up to 4)
 - PERFECTA CONTROL mobile application
 - remote control keyfobs operating in the 433 MHz band (up to 15) requires cooperation with the INT-RX-S module (PERFECTA 16 Firmware version 1.02 or higher)
- firmware updates available
- passwords:
 - 15 user codes



500 mA / 12 V DC



- 1 service code
- editable names (of users, partitions, zones, outputs and modules) for easy control and supervision of the system
- timers:
 - 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
 - remotely computer with PERFECTA Soft program installed, connecting to the control panel via GPRS

Current-carrying capacity of programmable high-current outputs 1000 mAi 12 V DC Low current programmable outputs rating 25 mAi 12 V DC Environmental class according to EN50130-5 II Communication buses 1 Maximum number of programmable inputs 16 Maximum number of programmable outputs 12 Maximum number of programmable outputs 180 mA Maximum current consumption 180 mA Maximum current consumption from the battery 190 mA Weight 105 mA Weight 105 g Battery cut-off voltage (±10%) 10,5 v Power supply output voltage 12 V DC 415% Supply voltage (±10%) 11 V Battery sulture voltage threshol (±10%) 11 V Battery sulture voltage threshol (±10%) 11 V Event log 30 mA / 12 V DC Event log 350 mA / 12 V DC Event log 364	7 to 7 to 10	00011117 12 7 20
Voice messages 16 Environmental class according to EN50130-5 II Communication buses 1 Maximum number of programmable inputs 16 Maximum number of programmable outputs 12 Maximum burditify 93:3% Maximum current consumption 180 mA Maximum current consumption from the battery 160 mA Keypads 40+64 Weight 105 g Battery cut-off voltage (±10%) 105 g Battery cut-off voltage (±10%) 11 V Supply voltage (±15%) 18 VAC, 50-60 Hz Battery failure voltage threshold (±10%) 11 V Elephone numbers for notification 8 Battery failure voltage threshold (±10%) 500 mA / 12 VDC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery- standby 100 mA Power supply output current 2 Sattery farging current 60 mA Security grade according to EN 50131 Grade 2 Partitions 8 Users	Current-carrying capacity of programmable high-current outputs	1000 mA / 12 V DC
Environmental class according to EN50130-5 II Communication buses 1 Maximum number of programmable inputs 16 Maximum number of programmable outputs 12 Maximum number of programmable outputs 12 Maximum number of programmable outputs 180 mA Maximum current consumption 180 mA Maximum current consumption from the battery 160 mA Keypads up to 4 Weight 10.5 v Stately cut-off voltage (£10%) 10.5 v Power supply output voltage 12 v DC-115% Supply voltage (£10%) 11 v V Elephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA/12 v DC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 500 mA Security grade according to EN 50131 Grade 2 Partitions 8 Users 15 Programmable wired inputs 8 Roor granulate	Low current programmable outputs rating	25 mA / 12 V DC
Communication buses 1 Maximum number of programmable inputs 16 Maximum humidity 93±3% Max. current consumption 180 mA Max. current consumption from the battery 160 mA Keypads up b4 Weight 105 g Battery cut-off voltage (±10%) 10,5 V Power supply output voltage 12 VDC ±15% Supply voltage (±15%) 18 VAC, 50-80 Hz Stattery stallure voltage threshold (±0%) 11 V Telephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA / 12 VDC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 500 mA Security grade according to EN 50131 Grade 2 Partitions 8 Users 15 Frogrammable wired inputs 8 Frogrammable wired inputs 4 Supplying outputs 2 Board dimensions 10,65 V-14 VDC <t< td=""><td>Voice messages</td><td>16</td></t<>	Voice messages	16
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Max current consumption 180 mA Maximum current consumption from the battery 160 mA Keypads up to 4 Weight 105 g Battery cut-off voltage (±10%) 10,5 V Power supply output voltage 12 VDC ±15% Supply voltage (£15%) 18 VAC, 50-60 Hz Battery failure voltage threshold (±10%) 11 V Telephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA / 12 VDC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 4 Supplying outputs 160 x68 mm Output voltage range 10.5 V.14 VDC <	Maximum number of programmable outputs	12
Maximum current consumption from the battery 160 mA Keypads up to 4 Weight 105 g Battery curoff voltage (±10%) 10,5 V Power supply output voltage 12 VDC±15% Supply voltage (±15%) 18 VAC, 50-80 Hz Battery failure voltage threshold (±10%) 11 V Telephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA / 12 V DC Event log 3584 Standay mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 8 Supplying outputs 1 Goard dienesions 160 x 68 m Output voltage range 10,5 V-14 V DC Operating temperature range +10+55 °C	Maximum humidity	93±3%
Keypads up to 4 Weight 105g Battery cut-off voltage (±10%) 10.5 V Power supply output voltage 12 V CC±15% Supply voltage (±15%) 18 V AC, 50-60 Hz Battery failure voltage threshold (±10%) 11 V Telephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA / 12 V DC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Primers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 8 Programmable wired outputs 4 Supply outputs 2 Board dimensions 160 x 8mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Max. current consumption	180 mA
Weight 105 g Battery cut-off voltage (±10%) 10,5 V Power supply output voltage 12 VDC ±15% Supply voltage (±15%) 18 VAC,50-60 Hz Battery failure voltage threshold (±10%) 11 V Telephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA /12 V DC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 8 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 v 14 V DC Operating temperature range -10+55 °C	Maximum current consumption from the battery	160 mA
Batery cut-off voltage (±10%) 10,5 V Power supply output voltage 12 V DC ±15% Supply voltage (±15%) 18 V AC, 50-60 Hz Batery failure voltage threshold (±10%) 11 V Telephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA / 12 V DC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 8 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Keypads	up to 4
Power supply output voltage 12 VDC ±15% Supply voltage (±15%) 18 VAC, 50-60 Hz Battery failure voltage threshold (±10%) 11 V Telephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA/12 VDC Event Log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x68 mm Output voltage range 10,5 v14 VDC Operating temperature range -10+55 °C	Weight	105 g
Supply voltage (£15%) 18 VAC, 50-60 Hz Battery failure voltage threshold (£10%) 11 V Telephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA / 12 V DC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Times 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Battery cut-off voltage (±10%)	10,5 V
Battery failure voltage threshold (±10%) 11 V Telephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA / 12 V DC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 8 Users 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range 10,5 V14 V DC	Power supply output voltage	12 V DC ±15%
Telephone numbers for notification 8 Current-carrying capacity of KPD output 500 mA / 12 V DC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery- standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 8 Supplying outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Supply voltage (±15%)	18 V AC, 50-60 Hz
Current-carrying capacity of KPD output 500 mA/12 V DC Event log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range 10+55 °C	Battery failure voltage threshold (±10%)	11 V
Event log 3584 Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+65 °C	Telephone numbers for notification	8
Standby mode current consumption 150 mA Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Current-carrying capacity of KPD output	500 mA / 12 V DC
Current consumption from battery - standby 100 mA Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Event log	3584
Power supply output current 2 A Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Standby mode current consumption	150 mA
Battery charging current 500 mA Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Current consumption from battery - standby	100 mA
Security grade according to EN 50131 Grade 2 Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Power supply output current	2 A
Partitions 2 Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Battery charging current	500 mA
Timers 8 Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Security grade according to EN 50131	Grade 2
Users 15 Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 × 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Partitions	2
Programmable wired inputs 8 Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 × 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Timers	8
Programmable wired outputs 4 Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Users	15
Supplying outputs 2 Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Programmable wired inputs	8
Board dimensions 160 x 68 mm Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Programmable wired outputs	4
Output voltage range 10,5 V14 V DC Operating temperature range -10+55 °C	Supplying outputs	2
Operating temperature range -10+55 °C	Board dimensions	160 x 68 mm
	Output voltage range	10,5 V14 V DC
Recommended transformer 40 VA	Operating temperature range	-10+55 °C
	Recommended transformer	40 VA



AUX output