



PATRON-PRO ACCESS SYSTEM



- Access system PATRON-PRO is designed mainly for door securing and control in apartment houses, garages and similar places where movement of unauthorized persons is not desirable.
- The system excels in an easy and quick installation and simple user rights updating via mobile phone with NFC technology.

More information about PATRON-PRO access system at www.patron-pro.eu

IMA → Systems → PATRON-PRO Access System



Reading and saving
a card to internal database
of the mobile phone



Uploading allowed cards
database from phone
to the access system



Applying card at the rea-
der and opening the door



Access system

Each authorized user is assigned an identification medium (card, tag). User entering a building only applies his identification medium to the reading terminal. The internal code of the identification medium is then compared with the list of valid identification media in the control unit. If the medium is listed, the control unit sends a pulse to the door lock and enables access to the building. The "access enabled" state is also visually presented on the reading terminal and accompanied by an acoustic signal.



IMA s.r.o.
Institut of Mikroelektronic Applications
Na Valentince 1, 150 00 Prague 5
phone: (+420) 251 081 097
fax: (+420) 251 081 066
e-mail: ima@ima.cz, www.ima.cz



Identification media

PATRON-PRO access system uses identification media DESFire and Mifare ISO 14443 standard operating at 13.56 MHz band. Identification media are supplied in form of an ISO card (size of a normal credit card) or a contactless tag. Contactless tag is with its dimensions of 30x30 mm a very popular and durable solution recommended in particular for residential buildings. The PATRON-PRO access system works as well with certain identification media that were already issued to users for operating other systems. Such media can be tested and loaded into the system and after that used for operating PATRON-PRO. All identification media supplied with the system can be printed according to customer demand.

Another possible identification medium usable with PATRON-PRO access system is a mobile phone with NFC technology. This mobile phone is a part of the primary supply and with a special adjustment is used for user rights management. It is however possible to buy an NFC mobile phone without this adjustment freely on the market. If a user owns such phone, it may be loaded into the system and used as an identification medium instead of using a contactless card.

Hardware

The PATRON-PRO access system consists of four components. These are the reading terminal RSW.03/A, relay module IRW.01, lock and mobile phone with NFC technology.

User of the system comes into contact only with the reading terminal located at the serviced door. The access system is designed with emphasis on safety so that any intrusion into the reading terminal could not lead to unlocking the door. The lock control unit is always installed inside the secured area.

Mobile phone with NFC technology is necessary for system management. With a special application installed, the phone can read identification media, manage access rights and easily update user database in the control unit.

System characteristics

- Securing and controlling the building entry
- Fast and convenient identification using a contactless card / tag
- Access rights management via a mobile phone with NFC technology
- Easy installation
- Immediate blocking of a lost or stolen card
- Ability to work with cards issued elsewhere
- Possibility to backup and edit card database in a mobile phone or on PC
- Increased security against intrusion
- Option to purchase an installation set for easy installation

Suitable for:

- Panel and apartment buildings, clubs, garages and parking lots, elevators, sliding door control, switching security systems, etc.



Technical parameters

Memory capacity... 250 records

Working frequency... 13,56 MHz

Standard..... ISO 14443

Card types..... Mifare DESFire,
Mifare Standard 1k, Mifare Standard 4k
optionally Mifare PLUS L1, L2, L3

Reading distance... 3,5 cm Mifare DESFire
6,0 cm Mifare Standard

Output..... two switching relay
contacts

Indication..... green and red LED,
acoustic

Voltage..... 9 až 15 Vss

Consumption..... 120 mA typ.
(without lock)

Protection..... tamper

Certification..... CE

Protection degree.. IP 63

Weatherproofing.... enviroment class III

Cover material..... SAN

Color..... RAL9004

Dimensions..... 175x63x31 mm

Working temperature range

-25 °C až +50 °C

Communication interface. Wiegand

Connecting cable

TRONIC-CY 10x0,14 RAL7001