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MADE TO PROTECT

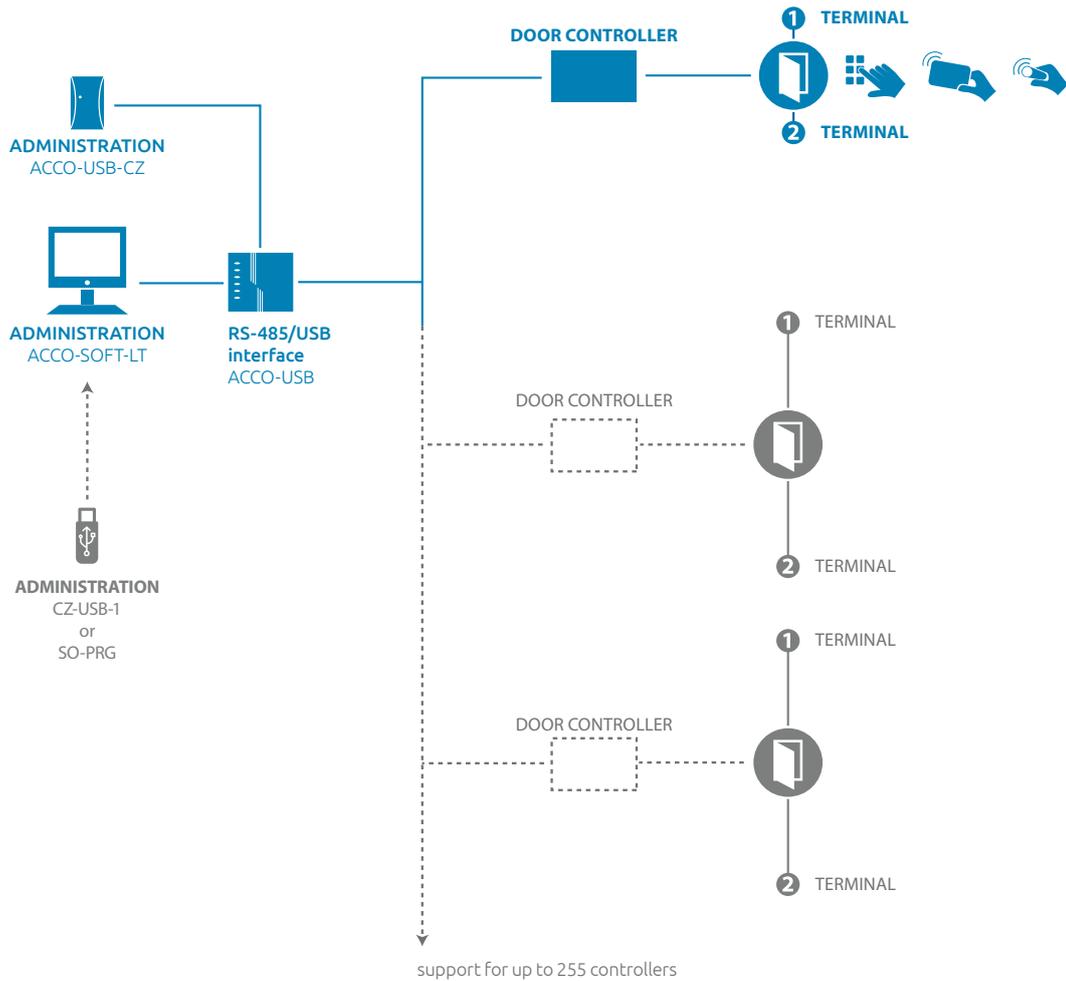
**acco**  
access control system

[www.satel.pl](http://www.satel.pl)

# ACCO

access control system  
diagram

The SATEL ACCO access control system is based on single door controller modules. It may consist of up to 255 modules connected to the RS-485 bus. Operation and communication of the bus with computer is provided by the ACCO-USB converter. Central management and programming of the ACCO system is possible owing to the ACCO-SOFT-LT program running on the computer.



**DOOR CONTROLLER:** ACCO-KP2 or discontinued: ACCO-KP-PS, ACCO-KP, ACCO-KPWG-PS, ACCO-KPWG.  
**TERMINAL:** SO-MF5, SO-MF3, CR-MF5, CR-MF3, ACCO-KLCDR, ACCO-SCR-BG, CZ-EMM, CZ-EMM2, CZ-EMM3, CZ-EMM4, CZ-DALLAS, Wiegand reader.



SATEL offers controllers which support readers using the EM Marin and Wiegand 26, 32, 34, 36, 40, 42, 56 bit transmission formats, as well as providing support for Dallas chip readers.

# ACCO system devices



**ACCO-KP2**  
Door controller



**ACCO-USB**  
RS485 to USB interface



**ACCO-KLCDR**  
LCD keypad with EM Marin proximity card reader



**SO-MF5-W / SO-MF5-B**  
Keypad with MIFARE® proximity card reader



**CR-MF5**  
Keypad with MIFARE® proximity card reader



**ACCO-SCR-BG**  
Keypad with EM Marin proximity card reader



**SO-MF3-W / SO-MF3-B**  
MIFARE® proximity card reader



**CR-MF3**  
MIFARE® proximity card reader



**CZ-EMM4 / CZ-EMM3**  
EM Marin proximity card reader



**CZ-EMM2 / CZ-EMM1**  
EM Marin proximity card reader



**CZ-DALLAS / PAS-DALLAS**  
Dallas iButton reader/  
Dallas key



**MLT-POD**  
Spacer for proximity card reader



**KT-STD-2 / KT-STD-1**  
EM Marin proximity card



**MG-DF3-2**  
MIFARE® proximity card  
DESFire EV3 2K



**OP-KT-2 / OP-KT-1**  
Plastic holder



**SO-PRG-B**  
MIFARE® card programmer



**ACCO-USB-CZ / CZ-USB-1**  
EM Marin proximity card reader



**BR-STD-2 / BR-STD-1**  
EM Marin proximity tag



**OPU-3 P**  
Enclosure



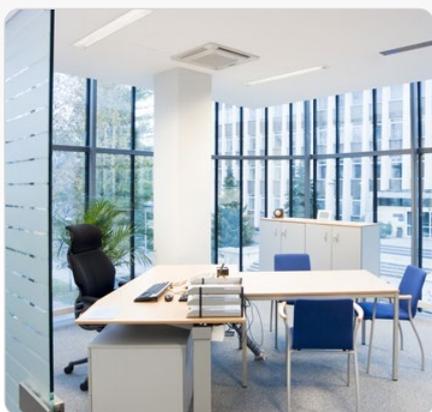
**OPU-4 P**  
Enclosure



**OPU-4 PW**  
Enclosure

A perfect complement to the burglary and intrusion alarm system is the access control system. Its function is to restrict access by unauthorized persons to specific locations in the building when the authorized personnel stay in the protected area. It is an alternative to the traditional systems of mechanical access control based on the normal keys. Functionality of the microprocessor controllers significantly exceeds even the complex "master key" systems. Using the dedicated software, the administrator can instantly and easily select the persons to be controlled by the system, set access schedules and grant access. This is one of the reasons why investors are so eager to use these features.

## Applications



Companies

An access control system implemented in the company's premises makes it possible to accurately define the rules of access of individual employees to specific areas. Thus you can reduce both the risk of losing tangible assets and unauthorized access to confidential and classified information.



Schools

Access control systems can improve safety in schools. By restricting the unauthorized access from outside, you can prevent, for example, the problem of drug trafficking, which appears in schools more and more frequently. On the other hand, making impossible for the students to leave school, except during the scheduled hours, eliminates the issue of unexcused absences.



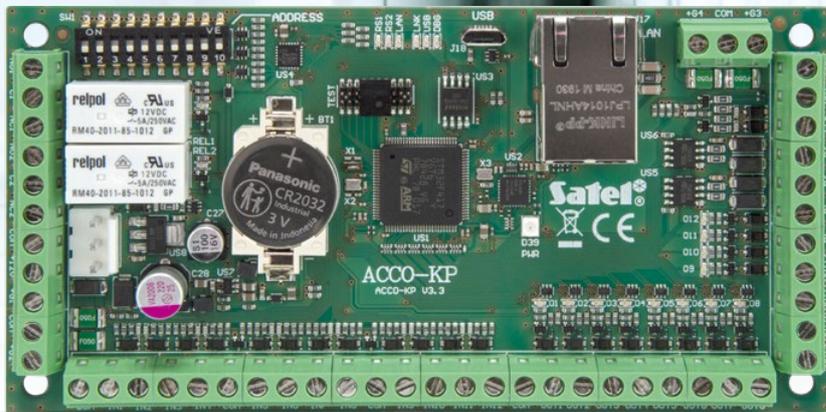
Hospitals, offices,...

... cinemas, mines, power plants, refineries, sports halls and other public buildings – in each of these facilities, the electronic access control system allows the staff to enter different premises, according to the organizational needs. At the same time, free movement of unauthorized persons can only take place in designated areas.



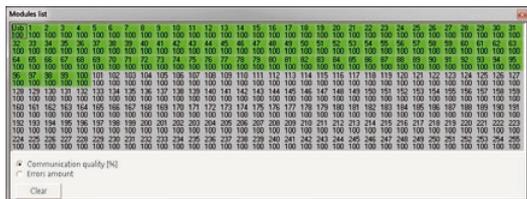
access  
control system  
**acco**  
means  
uncompromising  
safety

# ACCQ



## Broad range of system expandability options

The ACCO-KP series access control module, offered by SATEL, is a device used to monitor a single door. It can work as a self-contained module or be part of the system. By connecting the controllers to the RS-485 bus, it is possible to build the ACCO system consisting of up to 255 such controllers. Communication between them and the computer is provided by the ACCO-USB converter. Connecting the modules into a system significantly expands the functionality of access control. Combining a computer running the ACCO-SOFT-LT program with the controllers via the ACCO-USB, you get a diagnostic tool helpful in locating the source of the problem in case any troubles occur in communication with the modules present in the system. The program is constantly monitoring correctness of communication.



## Unlimited number of events

The access control module is a device independent of the user identification terminals. Thus, it can be installed in locations protected from unauthorized access. Its non-volatile memory allows the system configuration settings and all recorded events – altogether, over 24.5 thousand of them – to be saved. The ACCO-SOFT-LT program collects in real time all the events from the entire system. They can be comfortably viewed, owing to the features available in the program, including advanced filtering, which gives the administrator easy access to the information needed at any particular moment. **The events can be exported** in a simple manner from the program level to a file in the selected format (CSV, Excel). This makes it easy to view them later without having to run the program, and also allows archiving.



## Additional devices in the system

**Additional zones and outputs on the electronics board of the ACCO module** expand its functionality. They allow installation of additional devices, such as a door opening button or detectors which may affect in a specific way operation of the system. You can also connect the alarm system outputs to make possible control of a single module or the entire system. Thus, all doors will be automatically locked, for example, during burglary, or unlocked – in the event of fire. You can connect signaling devices to the outputs, or use the outputs to control the alarm system so that events generated by the access control will trigger specific reactions of the alarm system.



## Convenient configuration of the system

A single module can be configured using the LCD keypad. Because it is provided with a text menu, it causes no problems even for people who have so far been unfamiliar with devices of this type. Messages shown on the keypad display are clear and unambiguous, which reduces the possibility of mistakes and user errors, increasing the user friendliness of the system.

Greater capabilities in terms of programming settings are offered by a computer with installed **ACCO-SOFT-LT program, which is delivered free of charge with every purchased device**. It enables easy handling and facilitates supervision of the operation of both a single module and the entire system. It also offers tools which simplify system management. The program allows you to assign a specific plan to the monitored premises on which you can arrange various elements, such as door visualizations, icons of cameras and controllers, the status of which is presented in real time. The site plan, which is located in the "maps" tab of the program, plays not only informative role but also allows direct control of the door. In addition, you can run the function of displaying **photographs of users** who have used the terminals connected to the module.



## User management

1024 users can be registered in a single ACCO module. Each of them is assigned the name, card, code, as well as schedules of access and permissions. The **users can be grouped**, which greatly simplifies the management of people registered in the system. One group may consist, for example, of all users working on the same shift or having access to the given premises at the same time. The Administrator can **generate user reports** in PDF format, which contain information about the selected people registered in the system, which also makes the management of them much simpler.



## Access under strict control

**Time schedules** allocated to the users allow access to selected sites within a specific time frame. Thus it is possible to determine the employee's access time to a designated area, depending on his/her working hours. For example, a user working from 08:00 to 16:00 can enter the selected room from 7:30 to 16:30. In addition, owing to the possibility of limiting the number of entries, you can specify how many times the selected person is allowed to open the particular door. In turn, activating the anti-passback feature prevents the identifier from being passed by its owner to another person so that that person can get access. Another application of the time schedules can be the **automatic unlocking/locking of the door**. With this feature, the given door can be unlocked during specified hours, while at all other times the access to the particular area will be only possible after successful user authorization.

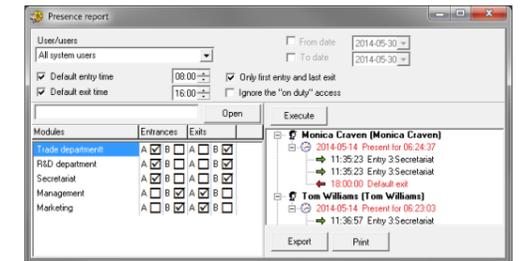


## Flexible user authorization

The SATEL products offered as part of the ACCO system include also user identification devices, which are necessary for the implementation of access control. Selection of the product depends on how the identification is to be performed. If the access is to be granted based on the proximity card, you should select a device with a built-in proximity card reader. A device with keys is required when the user has to use the code. If identification is to be based both on card and code, you should connect devices which are equipped with proximity card reader and keys.

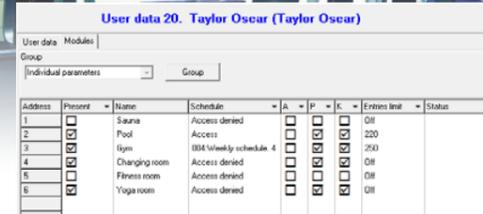
## Time & Attendance recording

The ACCO-SOFT-LT program includes a **tool for users' attendance time recording**. The administrator can define the entry/exit rules using the modules available in the system. Establishing the specific rules makes it possible to determine who and how long stayed in the particular room or in the whole building. In the program database, information on the employees' entries and exits is collected. On this basis, the attendance time is calculated and a report is generated, which can be useful at a later date for work time tracking, calculating overtime or wages.



## 24-hour presence monitoring

The function of **user attendance control** helps determine the time of the user's entry into premises, late-coming, if any, or exit from premises. With it, you can check if the users use their identifiers in accordance with applicable corporate policies. It is worth noting that this feature also allows you to identify the inactive cards or codes in the system, which are assigned to people who are not working for the company any longer.



## Limiting number of entries

Having in view the places where you buy a ticket for exact number of entries, such as fitness clubs, swimming pools or saunas, the "entries limit" parameter has been added to specify the **maximum number of user entries** into the premises.

The above mentioned advantages of the devices of ACCO access control system make it an attractive product for companies and institutions interested in supervision of the people moving around their premises. The features offered by ACCO modules allow you to choose the solution best suited to the specificity of monitored facility.



**Satel**<sup>®</sup>  
MADE TO PROTECT

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## 30 YEARS OF 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 30 years.

This philosophy of management and hard work of more than 300 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 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.

The manufacturer reserves the right to change the specification and technical data of devices.  
Images shown are for general information only and may differ from actual products.  
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