TNO MEP

KEYPROCESSOR SECURITY SOLUTIONS

TKH GROUP TKH SECURITY SOLUTIONS

Innovators in Security

Advanced video surveillance

Until 2002 the building and the surrounding land of TNO Environment, Energy and Process Innovation was a closed area. When the entire office became part of Business Park Apeldoorn and an open area, there arose a need for both intrusion protection and a system of access control and attendance and visitor registration. Keyprocessor's security management system fulfilled these requirements.

A complex situation

TNO MEP which is a division of TNO, develops knowledge and technologies for a high-quality work & living environment, economically competitive production processes combined with sustainable energy management. Approximately 400 people work at its Apeldoorn location. When the TNO MEP building became a significant part of the Business Park Apeldoorn, it all became apparent that it was imperative to implement a security concept that encompassed functionalities such as intrusion security, time registration and access management. The square-shaped building covers 22,000 m2 and there were more than 100 exterior doors. The building also houses other tenants besides TNO MEP. Setting up a security system that was both effective and easy to manage was a formidable task.

The solution from Keyprocessor

Keyprocessor's security management system is the optimum solution for TNO MEP because it is possible to combine the Intrusion security, Access control and Attendance registration security modules and to maintain the simplicity of managing these components. In addition to implementing the system, a number of practical measures were also implemented.

First of all the number of doors was drastically reduced. Many irons doors were also welded shut. Because detection in every office is expensive and labour-intensive, it was decided to use visitor detection in the halls. Detectors have been placed at strategic points in the halls. If someone leaves an office when the alarm is switched on, an alarm is generated at the security post and a report appears on the map in the system. Internal access control was also a key focus point. After all, most of the employees and visitors must be prevented from moving freely from one department to another. This is why access control readers have been placed inside and outside the building. These have been placed at laboratory and office doors and at doors to courtyards and personnel entrances.

Dividing the square

The TNO MEP building has been divided into zones within the security system. When a security guard walks through the premises at night, he can disengage the system in the zone that he is patrolling. Once the security guard has checked the entire zone, he switches the system back on in the one zone and then switches the system off in the next zone that he is going to patrol.

Three types of cards

TNO MEP uses three types of cards: one for employees, one for subtenants and one for visitors. TNO MEP produces these cards itself in the security management system. Each card can be programmed to allocate specific entry rights to the card-holder. These rights depend on the type of user (employee/ subtenant/visitor) and his or her position.

Disasters

The time & attendance module is not only used for personnel issues. If a disaster should occur, one press of the button is all it takes to determine exactly how many people are located in the building. Contingency plans for disasters have also been put in place in other areas. For example, if a fire breaks out, an alarm sounds at the report point. The doors are automatically opened within the zone and adjoining zone of the fire. This enables everyone to leave the building without being impeded by blocked doors.