

ELM Security Systems: Electronic Locking & Monitoring

Locking - Controlling - Monitoring - Alarming



The requirements on IT racks or facilities in server parks and data centers have changed clearly. Requirements of today:

- Improved data security
- Protection against unauthorized access
- Logging of all events
- Parameter controlled supervision
- Triggering of planned measures
- Connection to superordinated management systems

Today's integrated system solutions must provide these capabilities - absolutely reliably, scalable and economical. Of course the suitable locking solution has to be included too. With the **Electronic Locking & Monitoring (ELM) System**, EMKA offers a complete solution from one hand, which has the decisive features. Our modular designed systems can be easily adapted to the customer's needs.

The **EMKA Electronic Locking & Monitoring System (ELM System)** provides controlled access to all types of cabinets and is suitable for monitoring, control and reporting of environmental conditions.

From an abstract point of view, there are different functional types within the **ELM-System**. Each of these functional types is specialized to a specific task, e.g. controlling a lock, monitoring a sensor, accepting user input and others.

One or more instances of the same or different functional types are grouped together on a **Module**. An instance of a functional type on a module is called a functional **Component**.

There are different standard module-types available from which a specific ELM system can be build up. Each module-type combines a different set of components onto a base platform. The module's base platform provides a CAN-bus interface (Controller Area Network) for connecting to other modules. Therefore all of the

components of an ELM system can interact with each other.

A specific, user defined ELM application provides the components just needed for the application and consists of the modules onto which these components do reside. The modules are chained by a CAN bus. The ELM system allows to operate up to **64 modules of each type**, up to **100 modules altogether**, on a distance up to **1000 meters**. There are module types that can manage several handles, latches or sensors. Others combine user interface components with locking components and sensory components. It is possible to operate up to **512 handles** or **256 sensors** and **258 contacts** per ELM system. Up to **5 access code numbers** can be used for each handle individually.

An ELM system provides different user interface components or operating components regarding to identification and control like, e.g. keypads, mobile phones, proximity cards, PC-workstations or laptops.

Every access attempt, whether successful or not, and change of monitored conditions can be **logged** for further processing. Events can cause **alarms** in different ways.

Administration and monitoring of an ELM system can be done via different data interfaces (Ethernet, RS232) by means of a PC/workstation or laptop. The communication component of an ELM system provides an **SNMP-Interface** (Simple Network Management Protocol). Therefore, the ELM system also can be integrated in third party SNMP Management systems. The communication component allows for a **simultaneous access** of several workstations. A workstation can operate at one of **10 levels of permission**.

Graphics: on request

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