

# ELM Systems

## Electronic Locking & Monitoring



Locking  
Systems

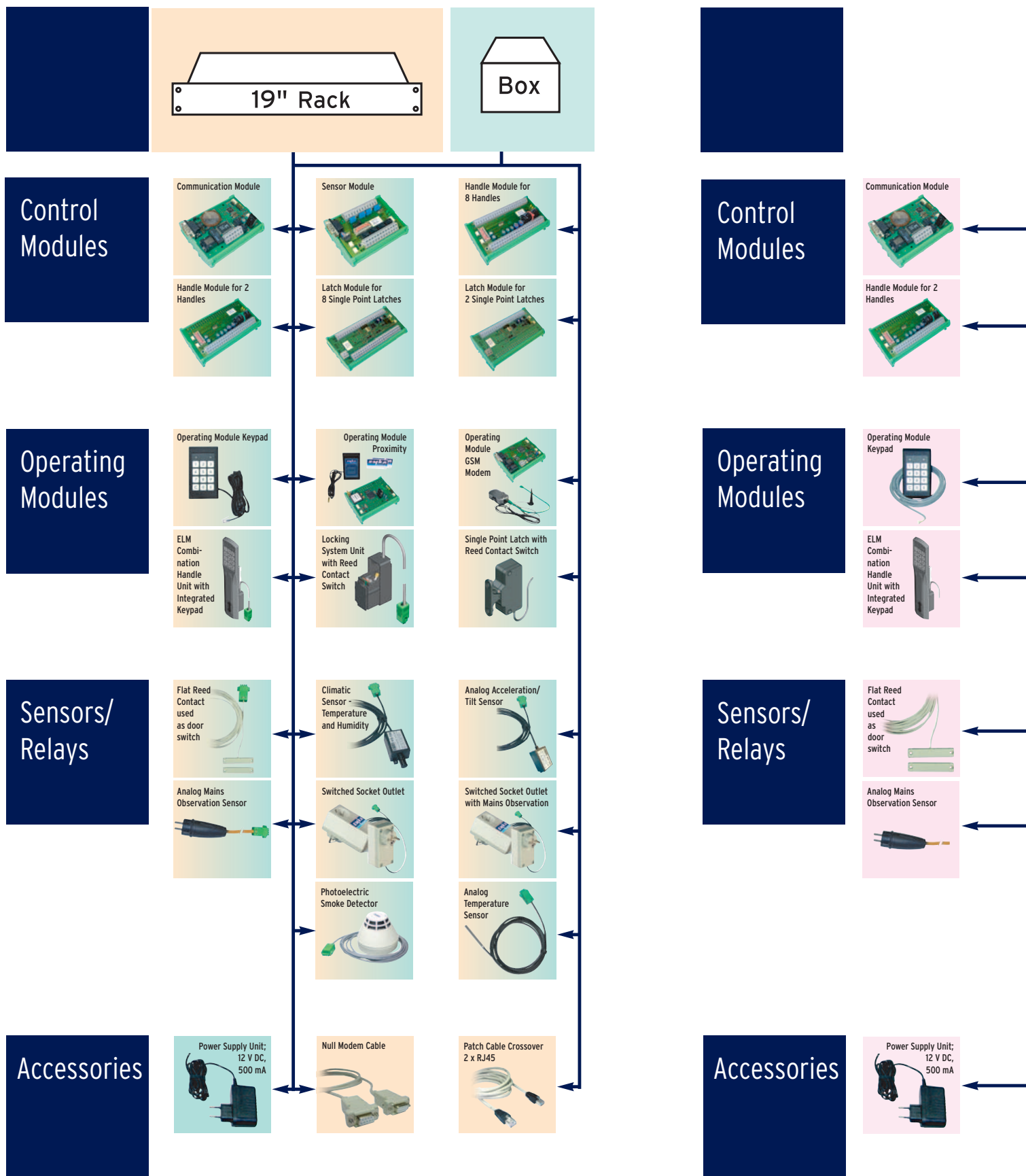
Access  
Control

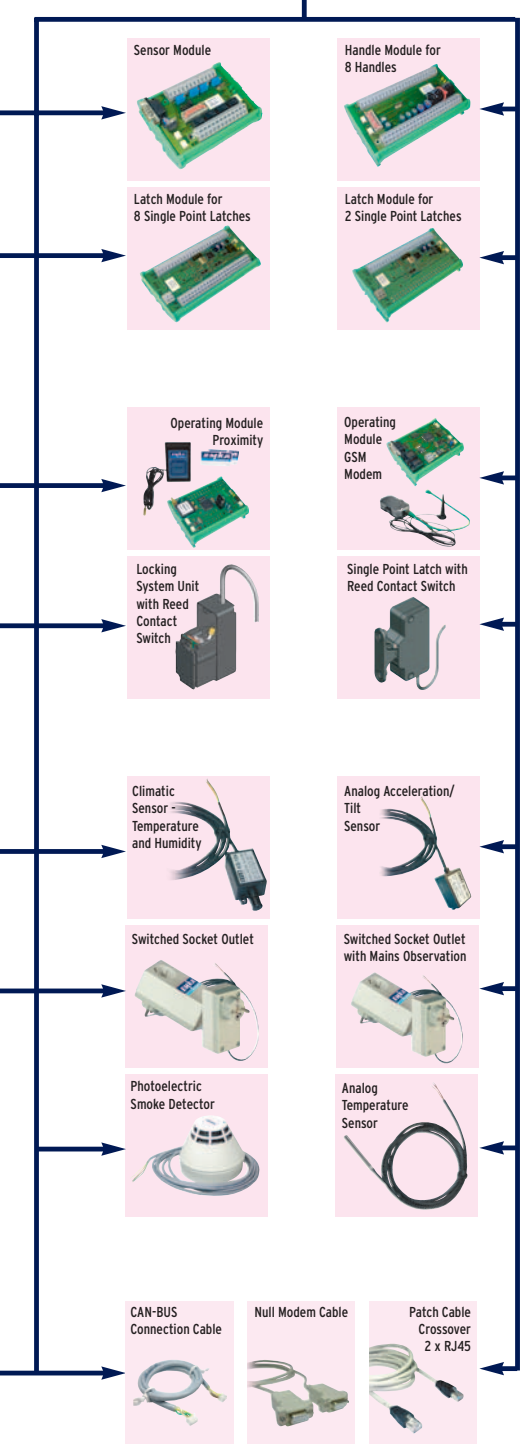
Controlling &  
Monitoring

Sensors &  
Relays



# ELM System Overview





Versions	19" Rack			Box	KIT
	Basic 3000-U49**	Standard 3000-U50*	Extended 3000-U53*	encapsulated version	components and assemblies
<b>Control Modules</b>					
Communication Module	3000-U14-01	○	●	●	3000-U14-02 3000-U14-00
Sensor Module	3000-U13-01	○	●	●	3000-U13-02 3000-U13-00
Handle Module for 8 Handles	3000-U11-01	○	●	●	3000-U11-02 3000-U11-00
Handle Module for 2 Handles	3000-U12-01	○	○	○	3000-U12-02 3000-U12-00
Latch Module for 8 Single Point Latches	3000-U32-01	○	○	○	3000-U32-02 3000-U32-00
Latch Module for 2 Single Point Latches	3000-U33-01	○	○	○	3000-U33-02 3000-U33-00
<b>Operating Modules</b>					
Operating Module Keypad	3000-U08-01	○	○	○	3000-U08-01 3000-U08-00
Operating Module Proximity	3000-U09-01	○	○	●	3000-U09-02 3000-U09-00
Operating Module GSM Modem	3000-U10-01	○	○	○	3000-U10-02 3000-U10-00
ELM Comb. Handle Unit w. Integr. Keypad	2100-U158-01	○	○	○	2100-U158-01 2100-U158-00
Locking System Unit w. Reed Contact Switch	3000-U06-01	○	○	○	3000-U06-01 3000-U06-00
Single Point Latch w. Reed Contact Switch	3000-U30-01	○	○	○	3000-U30-01 3000-U30-00
<b>Sensors/Relays</b>					
Flat Reed Contact used as door switch	3000-U35-01	○	○	○	3000-U35-01 3000-U35-00
Climatic Sensor - Temperature a. Humidity	3000-U25-01	○	○	○	3000-U25-01 3000-U25-00
Analog Acceleration/Tilt Sensor	3000-U38-01	○	○	○	3000-U38-01 3000-U38-00
Analog Temperature Sensor	3000-U39-01	○	○	○	3000-U39-01 3000-U39-00
Analog Mains Observation Sensor	3000-U40-01	○	○	○	3000-U40-01 3000-U40-00
Switched Socket Outlet	3000-U41-01	○	○	○	3000-U41-01 3000-U41-00
Switched Socket Outlet w. Mains Observation	3000-U42-01	○	○	○	3000-U42-01 3000-U42-00
Photoelectric Smoke Detector	3000-U34-01	○	○	○	3000-U34-01 3000-U34-00
<b>Accessories</b>					
Power Supply Unit; 12 V DC, 500 mA		●	●	●	3000-03-02 3000-03-00
CAN Bus Connection Cable 0,2m		n/a	n/a	n/a	n/a 3000-U17
CAN Bus Connection Cable 3,0m		n/a	n/a	n/a	n/a 3000-U18
CAN Bus Connection Cable 5,0m		n/a	n/a	n/a	n/a 3000-U19
Null Modem Cable	3000-U29	○	○	○	n/a 3000-U29
Patch Cable Crossover 2 x RJ45	3000-U28	○	○	○	n/a 3000-U28

\* Completely assembled and wired.  
 \*\* Assembled and wired according to customer's requirements (max. 6 modules per rack). Networks are constructed by connecting several racks.  
 ● = standard  
 ○ = optional  
 n/a = not applicable

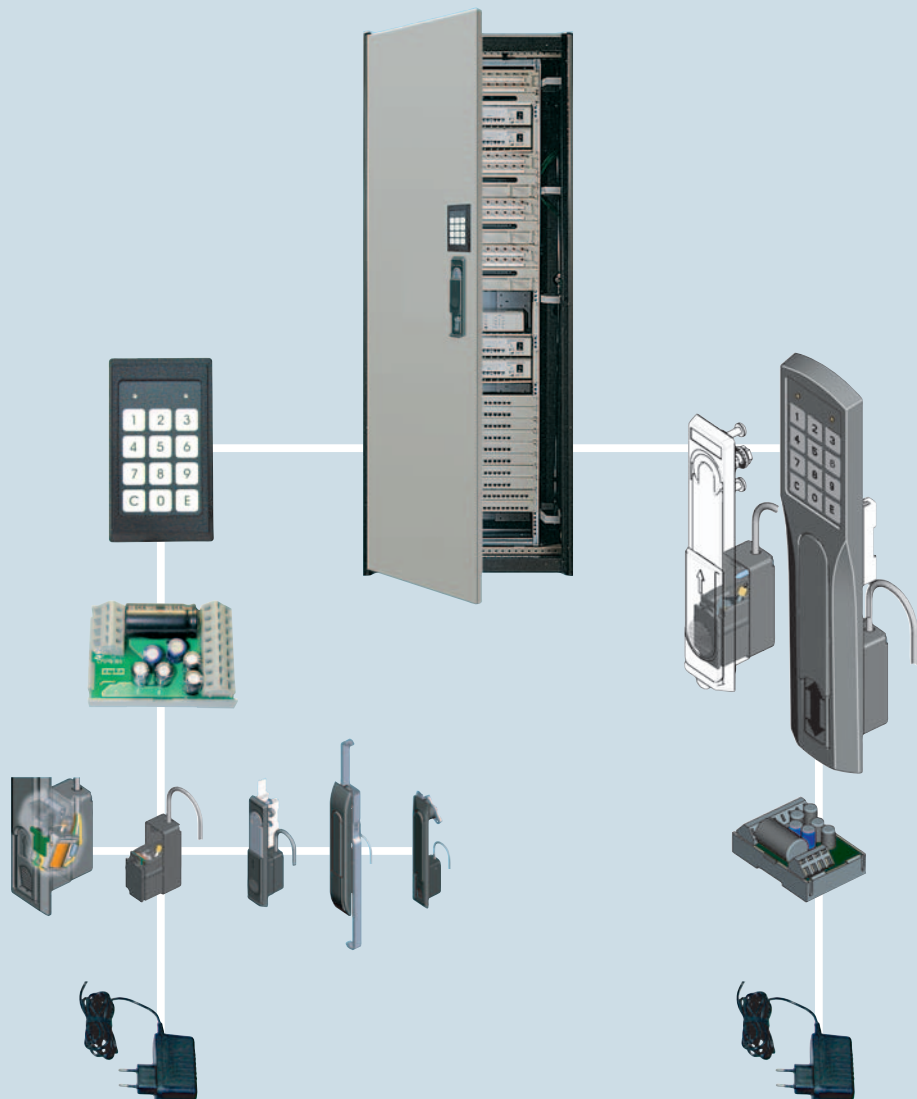
## Stand-alone Solutions

The Stand-alone system is an economical electronic locking system for cabinets with up to two doors.

It is suitable for applications which do not require an activity log or remote operation and management.

The opening of a handle is effected via a keypad by input of a code number. For the opening of every handle the system maintains up to 5 different code numbers. The administration of the code numbers is carried out directly at the keypad and requires authorization by input of a special "master code number".

The Stand-alone system consists of a Keypad Module and a Control Module. The Control Module provides the necessary electrical energy for opening the handles. Keypad Module and handles are available both as individual components and as an integrated unit.



# Locking - Protecting - Monitoring



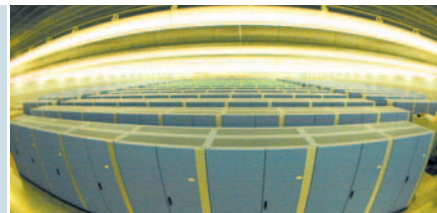
Application	Requirements	EMKA Solution
Enclosure Manufacturer	Locking/entry & environmental control options	Modular system is ideal for adding over temp. alarms & fan controls etc. Many unlocking options: PINs, prox cards, etc.
Data Center / secure building Architects	Integrated security systems	Easily integrated into a building system Building prox cards are compatible
Colocation center customers	100% uptime	Elimination of harmful "hot spots," early warnings, alarms
	Zero possibility of data theft	Alarms for forced intrusion, logging of entries, "at-a-glance" or passive monitoring, keypad has 1,000,000 combinations
	Easy termination of user rights	One click cancellation of prox cards & PINs
Colocation center operators	Passive monitoring	ELMwatcher software sends emails & text messages, etc.
	Easy management and trouble shooting	Windows® based software is intuitive & shows anomalies clearly with supporting detail
Multi-drawer secure cabinet maker	Monitoring and logging of drawer activity	Unlocking, entry & user status is recorded in real time
Kiosk manufacturers	Remote unlocking, security	Operates from LAN terminal, easily changed PINs
Industrial Equipment	Safety	Access limited to authorized personnel



Monitoring & alarms for entry, forced entry, and environmental conditions.



The "at-a-glance" monitoring screens give immediate notice of anomalies.



Controlling environment e.g. temperature.

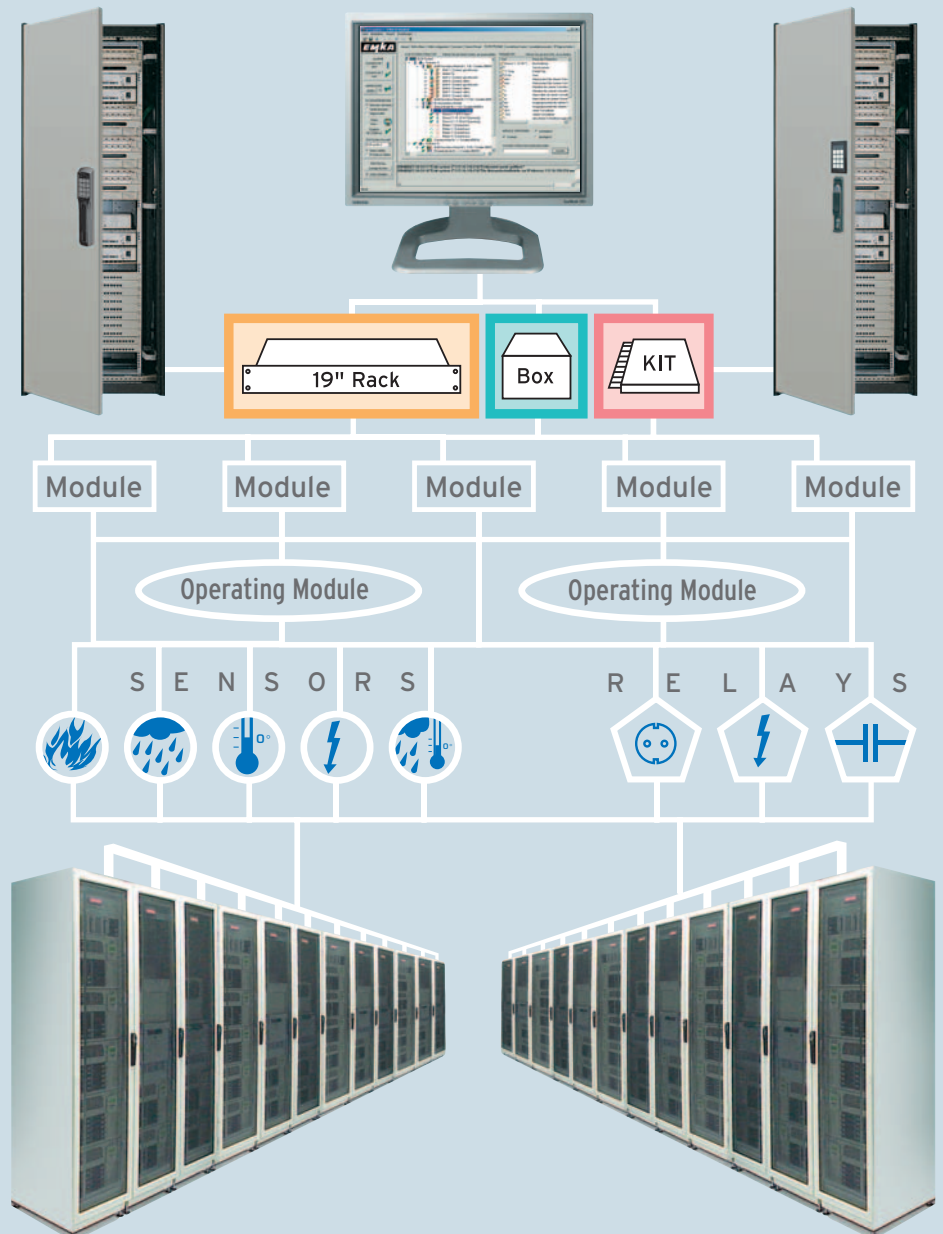
# Program 3000: Network Solutions

EMKA offers complete electronic systems including all controls & software, electro-mechanical actuators, and handles. This guarantees compatibility and problem free integration. Most systems are modular, allowing easy expansion and modification as customers' needs change. The Windows® compatible software allows simple installation, monitoring, control and access authorization changes.

Optional 19" rack units are factory wired with the selected modules. Handles, sensors, keypads, etc. are "Plug and Play" installation.

A network typically consists of several rack units, enclosed modules, or DIN rail mounted modules "daisy-chained" together. Because the EMKA system is modular it is easy to expand.

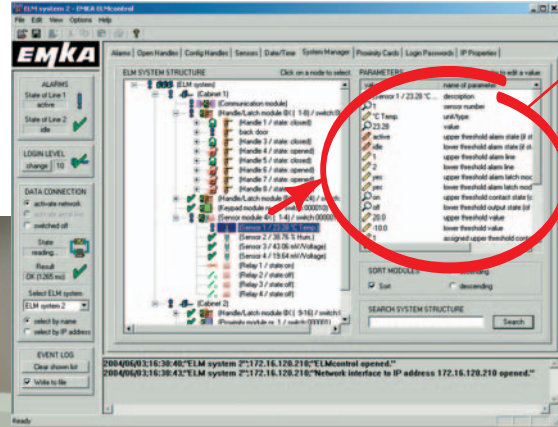
## ELMcontrol



### Benefits:

- Easy to expand
- Network compatible
- "Plug and Play"
- 19" rack compatible
- Each system operates up to 512 handles/latches or up to 256 sensors/contacts.
- Software makes configuration, control and monitoring easy.
- Passive monitoring with ELMwatcher software.
- SNMP-Interface for integration in third party SNMP management systems.

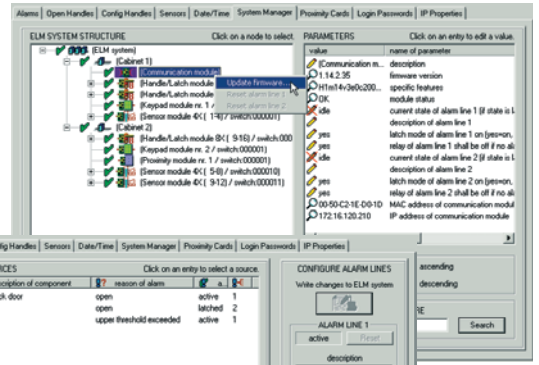
# ELMcontrol Software



Simple administration of module parameters

Screenshot System Manager

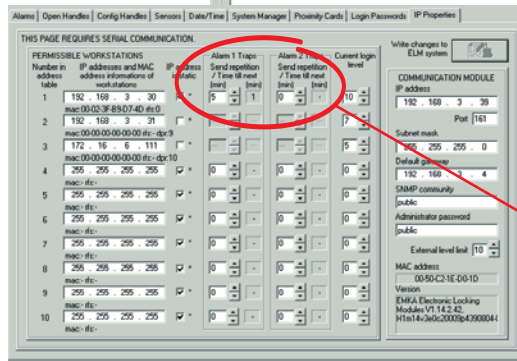
Quick up-date of firmware



The SNMP Manager ELMcontrol allows easy configuration, control and monitoring of the Electronic Locking System on a PC with Microsoft Windows® operating systems.

All network components are shown in several structured views and lists. The status of each handle and sensor is shown in real time. Intuitive symbols allow "at-a-glance" monitoring; text or bar graphs give details. Commands can be executed, e.g. opening a door. Events are displayed and written to a log file.

Several systems can be operated and managed from one terminal. Communication with the system can



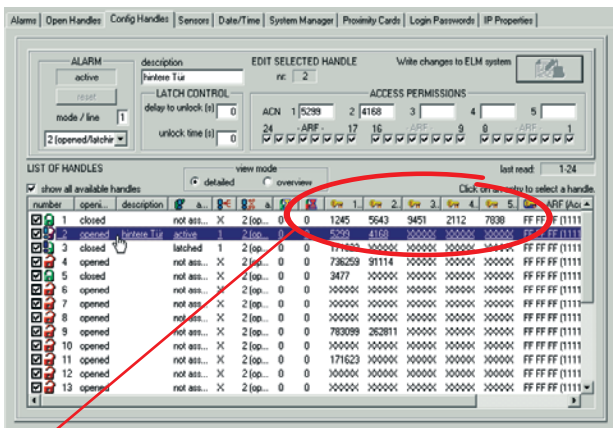
The forced intrusion alarm adds another level of security

Alarm traps can be set to alert multiple people on the LAN, over the internet, by e-mail or cell phone

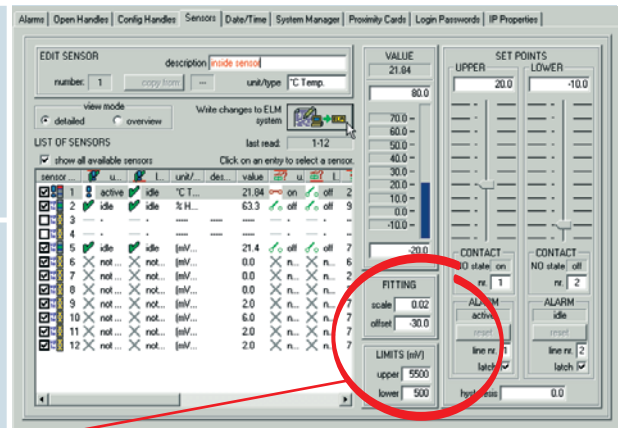
be via Ethernet, serial cable/USB connection or over the internet.

## Management of access authorization

## Management of sensors and contacts



Different codes and groups can be set up for every single lock



Easy use and integration of sensors supplied by the customer!

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