

WIRE ALARM SYSTEMS

MP110 SYSTEM

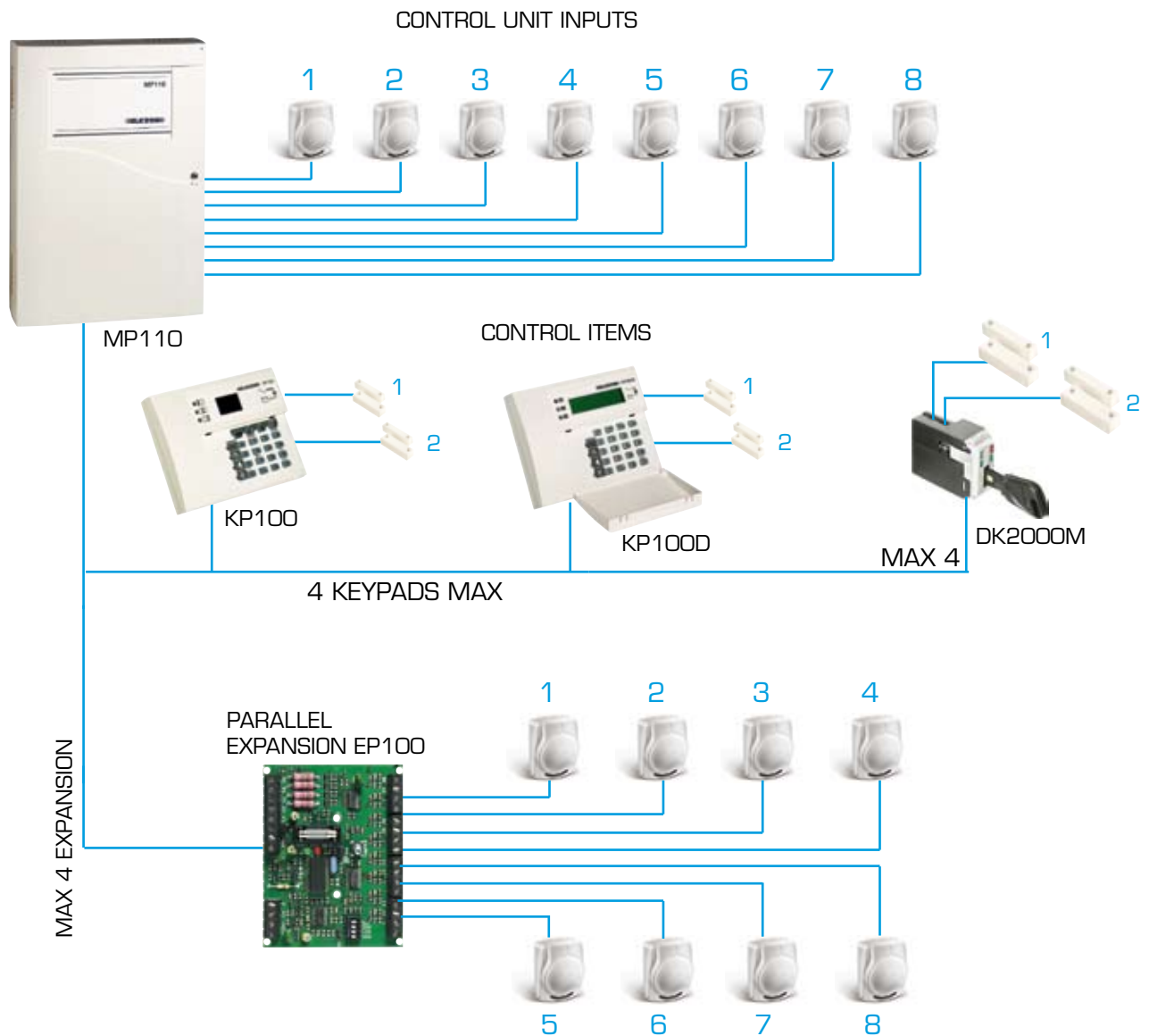


WIRE ALARM SYSTEMS

MP110: FROM 8 UP TO 56 INPUTS

FOR MIDDLE SIZE ALARM SYSTEMS

It is ideal for the device of medium extension, the MP110 system permits to manage 8 zones of alarm in the base version, and reaches up to 56 with optional expansion, or using the alarm zones present on each keypad or on each electronic reader. It is possible to part set the system in 3 sectors. MP110 is manageable through remote keypad and/or electronic key connected to the serial line. The alarms can be transmitted on the telephone line with main communication protocols or through pre-recorded messages thanks to the optional voice synthesis card. The system can be directly uploaded or downloaded by PC, through RS232 serial door and it is also Tele-manageable remotely or via modem.



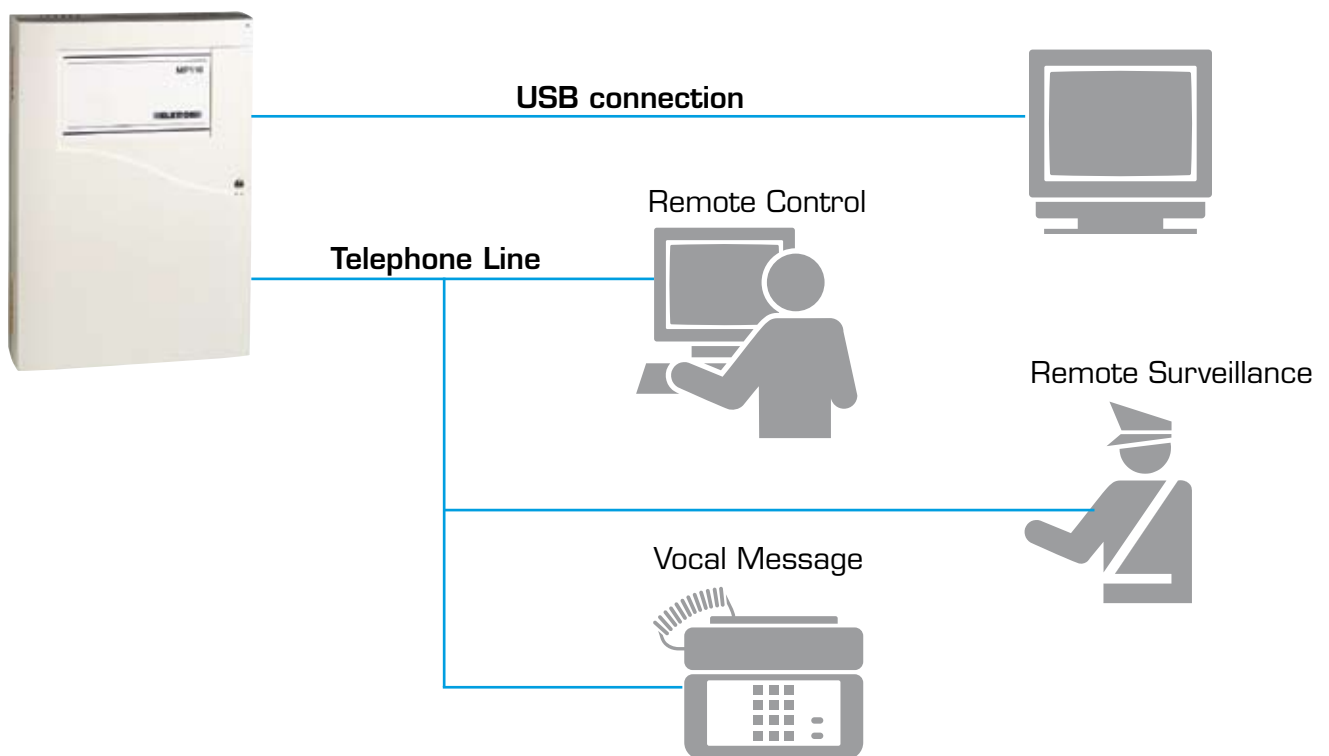
WIRE ALARM SYSTEMS

PROGRAMMABLE PART SET



The system can be subdivided into 3 independently armed partitions.

REMOTE CONTROL - ALARM TRANSMISSION



FASTLINK SOFTWARE

SYSTEM LOCALLY PROGRAMMABLE FROM PC OVER RS232 LINE OR REMOTELY PROGRAMMABLE VIA MODEM OVER TELEPHONE LINE

Data uploading and downloading through a dedicated easy-to-use, user-friendly running over Windows. The same software is already in use for remote management of other Elkron Systems. This software permits to record and classify customers, systems and operators. It also permits the following: remote control panel programming, control panel program downloading, program verification and editing, program uploading to control panel, system event log downloading, real time checking of system, input, output, battery and fuse status.



WIRE ALARM SYSTEMS

MP110: FROM 8 UP TO 56 INPUTS

Alarm Control Unit

MP110TG "A" IMQ cod. MP2A00211

- Languages menu : I = Italian GB = English, E = Spanish, F = French
- Control Unit in plastic box, with digital transmission trough communicator PSTN integrated
- Vocal transmission in option trough SV108
- Switching power supply. 1,5A
- Allocable battery 12V 7A
- Dimension (HxW xD): 345 x 240 x 79 mm

MP110M/ TG "A" cod. MP4B00111

- Languages menu : I = Italian GB = English, E = Spanish, F = French
- Control Unit in metal box, with digital transmission trough communicator PSTN integrated
- Vocal transmission in option trough SV108
- Switching power supply. 2,8 A
- Allocable battery 12V 17A
- Dimension (HxW xD): 318 x 422 x 91 mm

MP110M "A" cod. MP5A00211

- Languages menu : I = Italian GB = English, E = Spanish, F = French
- Version in metal box, without interface PSTN line, on board

Control Unit model availables

Model	Code	Languages	Quality Certification
MP110TG B	MP5B00111	GB/FIN/D/S	
MP110TG C	MP4C00111	I/GB/E/P	
MP110TG E	MP1E00111	I/CZ/RO/PL	
MP110 C	MP3C00111	I/GB/E/P	
MP110 E	MP4E00111	I/CZ/RO/PL	
MP110 PLUS	MP1A00311	F	NFA2P
MP110M/TG E	MP5E00111	I/CZ/RO/PL	

Common characteristics

Wire control unit for medium size plants equipped with 8 zones expandable up to 56.

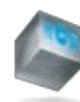
- Wire control unit for small and medium size plants equipped with 8 zones max + 1 tamper input + 1 mechanical key input. Expandable up to 56 zones + zones 24H + 4 AUX
- 5 programmable alarm outputs: 4 open collector electric outputs and 1 relay output with free exchange.
- Inputs can be partialized into 3 sectors
- Possibility of controlling up to 4 readers, 4 keyboards and 4 expansions for inputs/outputs via dedicated serial line (4 conductors)
- 8 supplementary alarm zones + 1 tamper input + 1 auxiliary input in every input expansion which may be of parallel type (EP100) or serial type (ES100). Every expansion is also equipped with 4 open collector electric outputs. The inputs can be further expanded through the wireless expansion ER2OWL.
- 2 additional alarm zones in every reader and in every remote keyboard
- Programmable zones such as THEFT (instant, delayed, last output, GONG), Technologic, Fire, Silent panic, panic with sirens.
- Activation and deactivation via LCD display remote keyboard (with clear message visualization), led remote keyboard, integrated electronic key, mechanical key.
- Signalling of :general alarm, failure, mains presence, low battery, plant status, tamper alarm,inputs open, inputs cut off. Signalling is provided by means of leds and/or display.



MP110 - MP110TG/A



MP110M



WIRE ALARM SYSTEMS

MP110: FROM 8 UP TO 56 INPUTS

- 8 user access codes are available: MASTER code, installer code, remote surveillance code, user code 2, 5, 6, 7 and 8.
- Max 64 events can be memorized.
- Alarm transmission integrated in the control unit (MP110TG version) with 6 23-digit telephone numbers communicator Multiprotocol digital transmission on 8 programmable channels. Optional voice transmission (with SV108+KV100 module) with 9 messages (1 base message + 8 alarm messages)
- Programmable with KP100 led keyboard and KP100D keyboard.
- Programmable through local/remote PC and Fast Link software.
- Programmable commutating lock functions with open zones and zone self-bypassing.
- Max length of unit-peripheral serial line: 500 meters (2x0.75 cable sect. for feeder + 2 x 0.22 x data).
- Degree of protection provided by casing: IP30/ IK 02.

Control Items

KP100 cod. KP2100211

Backlit remote keypad with 2 led digit display.

- Remote keyboard connected on dedicated serial line, equipped with 2 led digits and signalling leds.
- 2 on-board additional alarm zones.
- Max 4 keyboard installable
- Degree of protection provided by casing: IP30/ IK 02.
- Dimensions (H x W x D): 108 x 140 x 45 mm.



KP100

KP100D cod. KP2200111

Backlit remote keypad with LCD display.

- Same as KP100 but equipped with 16-character display with clear message signalling and signalling leds.



KP100D

DK2000M cod. DK2000111

Key reader for electronic digital key (black)

- Reader connectable on dedicated serial line.
- Max number of readers connectable to MP110 system: 4.
- Max number of programmable DK20 keys Unlimited.
- White version code DK2000M/B - DK2400111.
- Dimensions (H x W x D): 40 x 20 x 50 mm.



DK2000M






DK20 cod. DK1700111

Electronic digital key

- Programmable key to receive a code (more than 4 milliards of combinations available) generated by the control unit at random. Therefore, the number of keys that can be programmed with the same code is unlimited.
- Through the electronic key DK20 it is possible to enable/disable the system totally or partially.



DK20

MODEL	Quality Certification	
KP100	 2° liv.	
KP100D	 2° liv.	
DK2000M	 2° liv.	
DK20	 2° liv.	



WIRE ALARM SYSTEMS

MP110: FROM 8 UP TO 56 INPUTS

Software for remote control

FAST-LINK cod. SW1300111

Data uploading and downloading through a dedicated, easy to use, user-friendly software running under Windows™

MODEM cod. CT3900113

External modem to connect to PC for telemonitoring functions

Expansions

EP100 cod. MP7210111

8 parallel input extension unit

- Allows traditional detector connection (parallel).
- Inputs of expansions are programmable as instantaneous or delayed and they can be memorized, excluded and associated to the managed sectors.
- The expansions are connected through dedicated serial line



EP100



IV4Z

Accessories

SV108 cod. CT3210111

Vocal synthesis module

KV 100 cod. CT3410111

Voice synthesis kit consisting of microphone and speaker

ILT100 cod. CT4210111

interface module for connecting the communicator (for MP110 control unit only) to the telephone line

IT USB cod. MP9H10111


USB interface to connect control unit to PC

MR 02 cod. MP7910111

2 relais module for TTL o OPEN COLLECTOR NH/NL electrical outputs

IV 4Z cod. MP9610111

Interface board equipped with 4 storable alarms inputs and 4 electric outputs, one for each input. The board transforms the fast signals coming from equipment such as vibrators, shutter sensors, etc into signals manageable by alarm control unit

MODEL	Quality Certification
EP100	 2° liv.



WIRE ALARM SYSTEMS

SIM500 SYSTEM



WIRE ALARM SYSTEMS

SIM500 SYSTEM

FOR MIDDLE SIZE SYSTEMS

Elkron introduces the first security system of the new SIM 500 series. This system features 8 fully programmable zones (expandable up to 64), is both interactive and multimedia, and it can be fully remote controlled thanks to the unique Hi-Connect software. SIM 500: state-of-the art technology for the ultimate innovation, to ensure protection beyond security.

Total Performance Ensuring Simplicity

The system performs a wide range of advanced communications, allowing to monitor and control the security either from an internet website or by any touchtone phone including the mobile phone, hearing a system status report at home or from anywhere around the world. The Elkron-developed unique Hi-Connect software makes it possible to remotely control, program (upload/download) and fully check the system, and allows the additional feature to store/backup the entire system programming into a USB key. Moreover, the on-site system programming, including the set-up and test of all the peripherals, is autonomously and easily done by the control panel without the need of further operations on the single devices. This simplifies installation and maintenance, saving time and money.

High System Flexibility

In addition to its simplicity to install and set-up, the new SIM500 system is very fast and flexible. The possibility to integrate up to 4 video cameras allows the most advanced performances of alarm verification and video surveillance. The "speak-and-listen" performances of the keypads allows the system to activate a communication and make the "environment monitoring" by remote.

Tailored Features for Outstanding Security

The new SIM500 system has been designed and manufactured to offer such a wide range of features that can easily adapted, or "tailored", to satisfy most of the possible integrated security needs. In addition to the traditional intrusion detection functions, the SIM500 system can perform a number of functions for security that's unlike anything else in its range: intrusion detection, alarm verification, video surveillance, fire detection, gas leak prevention, flooding prevention, personal emergency, rescue, etc.

Telephone/mobile phone control

Simple, full system control. Easy, practical voice menu. Immediate identification, in case of phone calls, of the area concerned by the alarm signal. The environment listening function can also be activated with the "speak-and-listen" keyboards.

Remote Management Software Hi-Connect

Control panel remote management, check and programming via telephone networks PSTN/GSM and LAN/WAN

Connection to Surveillance Office

Via numeric protocols.

Video Surveillance function

4 analogue video inputs for monitoring and recording alarm events. Sending e-mails either with images of area affected by alarm or on command (SMS). Monitoring video cameras from PC, mobile phone and hand-held-computer.

Remote Management via telephone networks PSTN, GSM, LAN, WAN

With capability to send vocal, numeric and SMS alarms.

DTMF control management

With vocal guide, as well as management of the environment "speak-and-listen" and caller ID (caller identification) functions.

Sms control management

provision for activating the service by sending SMS's.

	MP504TG	MP508TG/EN
Expandable inputs	4/24	8/64
Expandable outputs	2/8	6/27
PSTN communicator	YES	YES
Multiprotocol digital transmission	YES	YES
Vocal messages transmission	YES Option (SV504)	YES Option (SV500)
Software management	YES	YES
IP management	YES Option	YES Option
IP VIDEO management	YES Option	YES Option
GSM transmission	NO	YES Option
LCD keypad	YES	YES
Multi languages menu	YES	YES
LED Keypad	YES	NO

MP508 SYSTEM: FROM 8 UP TO 64 INPUTS

SYSTEM'S OVERVIEW

ALARM VOICE RECEPTION
DTMF USER REMOTE CONTROL (VOCAL GUIDE)

SMS CONTROLS
SMS ALARM RECEPTION
CALLER ID

EP508 INPUT EXPANSION
8 INPUTS
1+2 OUTPUTS
MAX 7 EXPANSIONS

16 READERS MAX

8 KEYPADS MAX

MP508TG/EN
CONTROL UNIT WITH 8 ALARM INPUTS
EXPANDABLE UP TO 64 WITH PSTN COMMUNICATOR
SYSTEM PART SET UP TO 8 SECTORS
4+2 ALARM OUTPUTS

VIGILANCE SERVICES
DIGITAL PROTOCOLS

GSM PSTN USB LAN/WAN

HI-CONNECT
REMOTE MANAGEMENT SOFTWARE

LOCAL/REMOTE PC
USB KEY

4 ANALOG VIDEO INPUTS (COAX)

VIDEO GATEWAY 4T

BUS

RJ45

OUT

MONITOR

PC
HI-VISION CONTROL SOFTWARE

LAN

MODEM ROUTER

MAIL/SMS CELL. PHONE SIGNALLING
@

HI-VISION CONTROL SOFTWARE

PC
VIDEO CONTROL BY MOBILE PHONE AND PC

DK500M-E
ELECTRONIC KEY READER
2 PROGRAMMABLE INPUTS

DK500M-P
PROXIMITY KEY READER
2 PROGRAMMABLE INPUTS

KP500DV
LCD KEYPAD WITH SPEAK-LISTEN FUNCTION

KP500D
LCD KEYPAD 2 PROGRAMMABLE INPUTS

- **Fast system start-up:** to acquire the devices it is not necessary to set the addresses with dip-switch. It is sufficient to press their programming button and the control panel will send to the device the assigned address and the factory settings.
- **Service keypad:** it is possible to connect to the control panel a temporary service keypad, by a dedicated connector, for programming or maintenance. The service keypad can be disconnected from the system at the end of the installation, without needing to program again the control panel.
- **Wide input configuration capability:** every single input can be configured according to type (seven) and configuration (twenty). Every single input of control panel, keypad, expansion, reader, can also manage Elkron VSD3 and MMZO1 inertial detectors and Elkron MFO1 and MFO2 rolling shutter detectors.

SYSTEM MAIN CHARACTERISTICS

- **Advanced technological alarms:** when a “technological” event occurs, for example the flood of a room, the system can activate specific actions, as for example the water electric valve closing, and also sends the corresponding alarms. In order to manage different situations, the system is provided with three outputs management types.
- **Rescue call:** with a dedicated input it is possible to send a phone call and inform the receiver with a vocal message concerning the help request. If the system is provided with a KP500DV vocal keypad, afterwards it will be possible to call the control panel and communicate in hands-free mode with the person that issued the alarm.
- **Door opener:** it is possible to drive an electric lock with an output configured as “door opener”. In this way it is possible to limit the access in specific areas only to authorized personnel. Date, time and user that requested the opening are stored in the control panel.
- **Commands with call at cost zero:** control panel acknowledges GSM telephone number, so a command on specific output can be generated. As an example, an automatic gate of a passage-way for cars can be opened by calling control panel from the car with mobile phone and breaking the communication after the first 3-4 rings, without needing to key in the code.
- **Commands through SMS:** it is possible to drive an output through an SMS. The output commutation is confirmed by another SMS sent to the number that made the call.
- **Vocal help for remote management:** the system helps the user in the telephone management with vocal messages.
- **Advanced alarm vocal calls:** capability to send vocal calls with a specific message for single partitions and/or inputs.
- **Service messages playback:** capability to give the user diagnostic information with vocal hands-free messages from the vocal keypad
- **Video functionality:** through video gateway connected to control panel MP508, images can be checked of four analogue video cameras that can be freely assigned to one or more system inputs. Images taken with video cameras can be either displayed in remote mode or recorded on the HD of a locally connected PC (on command or after an alarm). Displaying in remote mode is in following ways:
 - Sending images of area affected by alarm via e-mails on mobile phone / hand-held-computer
 - Starting image sending service either on user's request (via SMS) or in automatic mode
 - After an alarm, the system can send E-MAILs attaching images stored before, during and after the event which generated the alarm. In this way there can be displayed, as an example, the instants before the event; this function is specially useful where event duration was not so long as any intruders could be identified.
 - Connection is supported by a completely free ELKRON service allowing to manage video gateway through a dynamic IP. In this way, costs for a contract with a public telephone network provider will be lower (ADSL FLAT). Anyhow, a static IP can be managed.

Note: local PC recording on HD is an alternative to sending E-mails.

- **Automatic functions:** with a time programmer embedded in the control panel, it is possible to set a weekly list of automatic commands. Commands types can be ACTIVATE or DEACTIVATE and can be used, for example, for a garden irrigation system or a boiler for heating. Besides the above mentioned functions, that can be defined as service functions, it is also possible to manage automatically the alarm system arming or disarming, or set time bands in which a specific code or key are not enabled. For example, during holidays the domestic help key or code is disabled.
- **Remote Management via LAN/WAN**
 - Connection speed 115.200 baudrate
 - Capability to enter up to 12 static IP addresses to send alarms
 - Capability to program sending alarms
 - Managing signalling any failures (connection impossible), storing the event to control panel log file.
- **System data transport:** installer can prearrange control panel programming from PC, save the settings on USB key and go to the customer (just with the key) and update control panel software.

The key can also be used for following useful functions:

- Make changes in programming at the customer's by using the keyboard, save the settings on the key and then update the data at the office on Hi-connect
- If prior programming was stored on the key, control panel can be replaced at the customer's without reconfiguring the system
- If 2 systems have to be created using the same keys and/or user codes, the key can be used to duplicate key codes and/or user codes
- To improve safety, the key can be used as a BACKUP for configurations and codes.

WIRE ALARM SYSTEMS

MP508 SYSTEM: FROM 8 UP TO 64 INPUTS

Alarm control units

MP508TG/EN cod. MP3J00111 **(EN50131 compliant)**

Expandable Control panel (64 inputs max) with integrated PSTN telephone communicator

- 8 programmable inputs + 1 sabotage input, basic; expandable up to 64
- 6 programmable outputs (2 relays + 4 OC), basic; expandable up to 27
- System part set into 8 partitions
- Management of 32 user codes (from 4 to 6 digits) and 32 keys (electronic DK30 or proximity DK50)
- Multilanguage menu: italian, french, english, spanish, german, polish, slovak, finnish
- History file storing 1000 events
- Weekly time programmer, 8 daily controls
- 1 field bus for the connection of: max. 8 display keypads, max. 7 expansions, max. 16 key readers
- Direct connection for service keypad
- Telephone transmission on 12 telephone no., through numerical protocols and/or modem.
- Voice synthesis interface: factory recorded messages for each system input/partition/event, sound BUS for voice functions and ambient listening through keypad (KP500DV), auxiliary voice guide for DTMF remote controls.
- GSM interface with antenna which can be allocated inside the control panel
- TCP/ IP interface for control panel connection with LAN or ADSL modem.
- Web video 4T interface (up to 4 video cameras) for connection with LAN or ADSL modem.
- USB interface for connection with local programming PC
- USB pen drive interface (standard type) to save and retrieve system programming
- HI CONNECT software application for programming and remote management (compatible with Windows Vista ®)
- In compliance with EN 50131 -1
- Rhos compliant
- Allocable battery : 12 Vdc - 7 Ah
- Switching Power supply : 1.5 A
- Dimensions (H x W x D): 238 x 340 x 90 mm



MP508TG

MP508M/TG cod. MP8K00211

Like MP508TG but with metal box.

- Like MP508TG but with metal container.
- Allocable battery : 12 Vdc - 17 Ah
- Switching Power supply : 4 A
- Dimensions (H x W x D): 350 x 490 x 145 mm
- External antenna for GSM module to be fastened on container top rim



MP508M/TG



WIRE ALARM SYSTEMS

MP508 SYSTEM: FROM 8 UP TO 64 INPUTS

Control Items

KP500D/EN cod. KP6000211 (EN50131 compliant)

Remote keypad with LCD alphanumerical display with 2 lines for 16 characters.

- Back light, contrast and buzzer, adjustable.
- 3 alarm control keys.
- User menu access with closed lid.
- 2 alarm inputs.
- Operation mode selectable through: EN50131 compliant or MP508TG standard
- Dimensions (H x W x D): 140 x 115 x 28 mm.



KP500D

KP500DV cod. KP6100211

Like KP500D, but with:

- Connection with sound BUS (as an alternative for 2 alarm inputs).
- Integrated microphone and loudspeaker.
- Emission of recall voice messages.
- Recording listening of alarm voice messages.
- Remote ambient speaking/listening.



KP500DV

DK500M-E cod. DK5000211

Electronic key reader (mod. DK50)

- 5 LEDs: 4 LEDs to view system state + 1 alarm memory
- 2 inputs onboard, programmable
- Compatible with whole range of Elkron civil electric line adapters.
- Available in white color version DK500M-E/B cod. DK5100211



DK500M-E

DK50 cod. DK5400211

Digital electronic key with univocal code (over 1099 billions of possible combinations)

- ABS material
- Possibility to customize (Kit DK30 50)



DK50

DK500M-P cod. DK5200211

Proximity key reader (mod. DK30)

- 5 LEDs: 4 LEDs to view system state + 1 alarm memory
- 2 inputs onboard, programmable
- Available in white color version DK500M-P/B cod. DK5300211



DK500M-P

DK30 cod. DK3500111

Proximity key 125 KHz (more than 281.000 billion of combinations)

- ABS material
- Degree of protection IP68 - IK08.
- Possibility to customize (Kit DK30 50)



DK30

KIT DK30-50 cod. KT9410111

Color inserts to be fitted on DK50/DK30 keys for their customization



WIRE ALARM SYSTEMS

MP508 SYSTEM: FROM 8 UP TO 64 INPUTS

Expansion

EP508 cod. MP7K00211 (EN50131 compliant)

Parallel expansion which can be connected with system BUS where it is possible to connect traditional devices

- 8 inputs + 1 sabotage, programmable
- 3 outputs (1 relay + 2 electric), programmable

Accessories

Voice synthesis board which can be connected with the control panel through the suitable connector (headphones provided)

SV500I cod. CT5610111 (italian version)

SV500F cod. CT5614911 (french version)

SV500GB cod. CT5612111 (english version)

SV500S cod. CT5615111 (spanish version)

SV500G cod. CT5613711 (german version)

SV500PL cod. CT5610811 (polish version)

SV500SV cod. CT5616611 (slovak version)

- Factory recorded messages for each system input/partition/event
- Sound BUS for voice functions and ambient listening through keypad (KP500DV)
- Auxiliary voice guide for DTMF remote controls

IMG500 cod. CT5510111

BI-BAND GSM module (900/1800 MHz)

- IMG500 is the interface allowing to connect the MP508TG and MP508M/TG control panel to the GSM network, for sending of alarm signalling and reception of remote commands. The interface is provided with a dual-band GSM transmitter/receiver (900/1800 MHz) and with an antenna to be installed in the control panel. If the control panel position does not ensure for the GSM module a sufficient field strength, it is possible to use the GSM 1 antenna (not provided). If the GSM module is used with the MP508M/TG metal control panel, it is necessary to replace the provided antenna with the GSM 2 antenna used in case of metal housing or to use GSM 1 antenna (both are not provided).

IT USB cod. MP9H10111

USB interface.

- IT-USB interface allows to connect a computer to the MP508TG or MP508M/TG control panel for control panel programming.

IT USB/KEY cod. MP5K10111

USB interface for connection to PC and to USB IT-USB/KEY keys.

- The IT-USB/KEY interface allows to connect a computer to the MP508TG or MP508M/TG control panel for control panel programming and a USB key (Pen Drive) for save and restore of the whole system programming.

CAVO X KP cod. CV3010111

- The cable for service keypad is used to connect the control panel to the service keypad (KP500D or KP500DV, as you like), in order to carry out the system programming. The cable is provided with a connector compatible with the SERVICE connector of the MP508TG or MP508M/TG control panel motherboard.

MODEM cod. CT3900113

External modem to be connected with the PC for remote management.



EP508



SV500I



IMG500



ITUSB



ITUSB/KEY



WIRE ALARM SYSTEMS

MP508 SYSTEM: FROM 8 UP TO 64 INPUTS

Accessories

HI-CONNECT cod. SW2400111

- Software for ELKRON control panel configuration, user friendly and easy to understand, working in Windows™ operating environment. Through this software it is possible to record and classify clients, systems and operators. In addition, it is possible to remotely program alarm control panels, acquire the resident configuration, check it, change it and then load it again in the control panel (up/downloading), acquire the system event memory, check in real time the system state, the input and output state, the battery and fuse state. Integrated function for technical alarm reception (modem needed).

VIDEO GATEWAY 4T cod. VDO800131

Video gateway module with 4 inputs for analogue video cameras

- Video gateway is used to integrate, into the system, up to 4 analogue video cameras that can be assigned to one or more system inputs. Images taken have a max resolution of 640 x 480 pixels. For connection to internet network, an Ethernet connector is available, through which video gateway can be connected to a LAN network, a modem or an ADSL router.
- Managing video gateway and transferring images is by an Ethernet connection on LAN or WAN network (through a Modem / ADSL Router, not provided).
- Dimensions (hxlxp): 238 x 340 x 90 mm.



VIDEO GATEWAY 4T



INTERFACCIA ETHERNET

INTERFACCIA ETHERNET cod. IT1200111

Interface which can be connected with the control panel

- Interface which can be connected with the control panel set for the connection with LAN or ADSL modem (not provided. System management through HI CONNECT software application 3.0 version).

ANTENNA GSM 1 cod. ANO300111

Remote antenna

- GSM 1 remote antenna is provided with bracket, screw anchors for wall mounting and 5 m of cable assembly with SMA-M connector compatible with GSM IMG500 module. It is useful when the control panel position does not ensure for the GSM module a sufficient field strength.



ANTENNA GSM 1

ANTENNA GSM 2 cod. ANO400111

Remote antenna for metal housing

- Antenna for metal housing with SMA-M connector compatible with the GSM IMG500 module. It must be used with the IMG500 module in the MP508M/ TG control panel with metal housing.



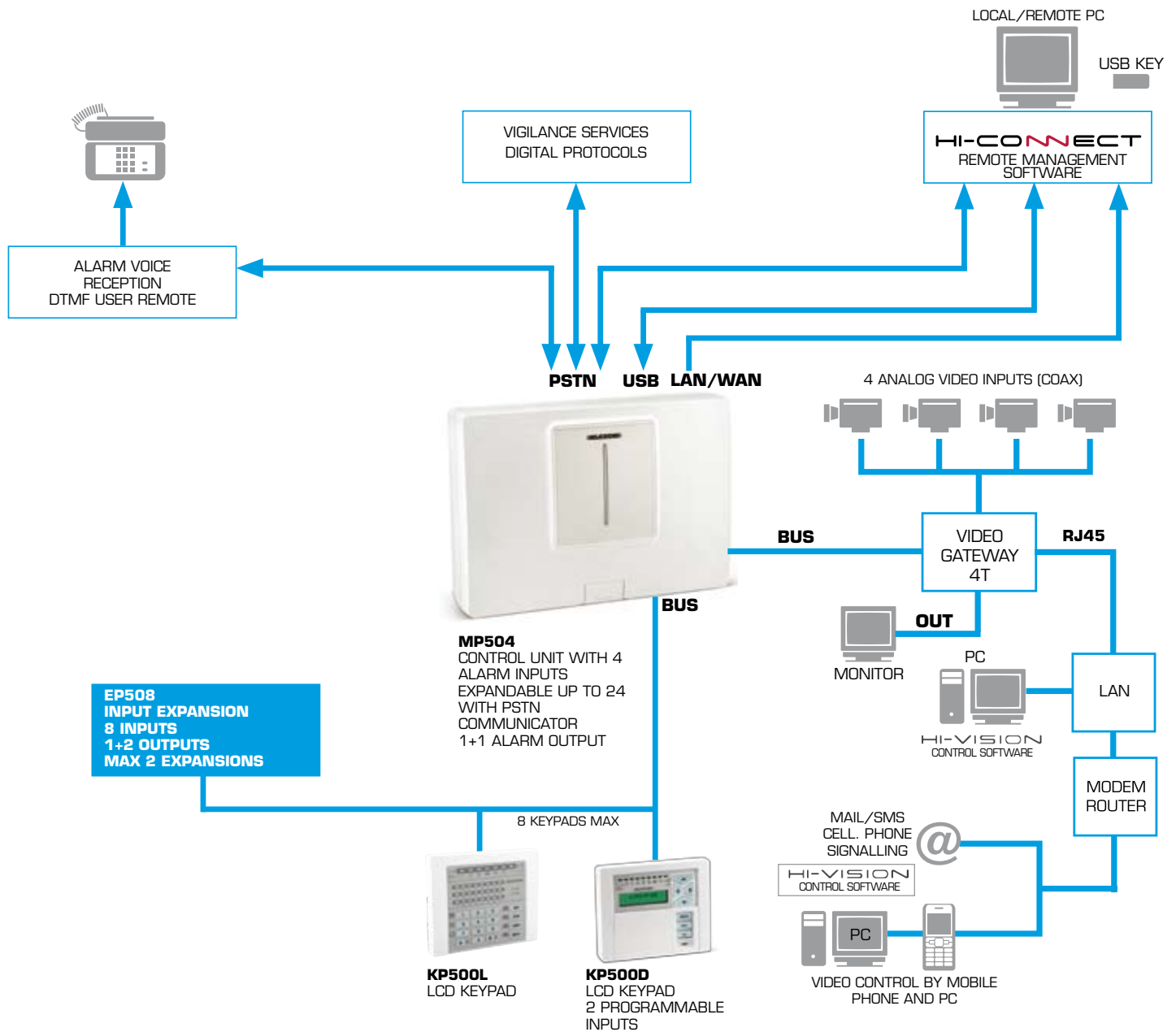
ANTENNA GSM 2



WIRE ALARM SYSTEMS

MP504 SYSTEM: FROM 4 UP TO 24 INPUTS

SYSTEM'S OVERVIEW



SYSTEM MAIN CHARACTERISTICS

- **Fast system start-up:** to acquire the devices it is not necessary to set the addresses with dip-switch. It is sufficient to press their programming button and the control panel will send to the device the assigned address and the factory settings.
- **Wide input configuration capability:** every single input can be configured according to type (seven) and configuration (twenty). Every single input of control panel, keypad, expansion, reader, can also manage Elkrón VSD3 and MMZO1 inertial detectors and Elkrón MFO1 and MFO2 rolling shutter detectors.
- **Advanced technological alarms:** when a “technological” event occurs, for example the flood of a room, the system can activate specific actions, as for example the water electric valve closing, and also sends the corresponding alarms. In order to manage different situations, the system is provided with three outputs management types.
- **Door opener:** it is possible to drive an electric lock with an output configured as “door opener”. In this way it is possible to limit the access in specific areas only to authorized personnel. Date, time and user that requested the opening are stored in the control panel.
- **Video functionality:** through video gateway connected to control panel MP508, images can be checked of four analogue video cameras that can be freely assigned to one or more system inputs. Images taken with video cameras can be either displayed in remote mode or recorded on the HD of a locally connected PC (on command or after an alarm). Displaying in remote mode is in following ways:
 - Sending images of area affected by alarm via e-mails on mobile phone / hand-held-computer
 - After an alarm, the system can send E-MAILs attaching images stored before, during and after the event which generated the alarm. In this way there can be displayed, as an example, the instants before the event; this function is specially useful where event duration was not so long as any intruders could be identified.
 - Connection is supported by a completely free ELKRÓN service allowing to manage video gateway through a dynamic IP. In this way, costs for a contract with a public telephone network provider will be lower (ADSL FLAT). Anyhow, a static IP can be managed.

Note: local PC recording on HD is an alternative to sending E-mails.

- **Automatic functions:** with a time programmer embedded in the control panel, it is possible to set a weekly list of automatic commands. Commands types can be ACTIVATE or DEACTIVATE and can be used, for example, for a garden irrigation system or a boiler for heating. Besides the above mentioned functions, that can be defined as service functions, it is also possible to manage automatically the alarm system arming or disarming, or set time bands in which a specific code or key are not enabled. For example, during holidays the domestic help key or code is disabled.
- **Remote Management via LAN/WAN**
 - Connection speed 115.200 baudrate
 - Capability to enter up to 12 static IP addresses to send alarms
 - Capability to program sending alarms
 - Managing signalling any failures (connection impossible), storing the event to control panel log file.
- **System data transport:** installer can prearrange control panel programming from PC, save the settings on USB key and go to the customer (just with the key) and update control panel software.

The key can also be used for following useful functions:

 - Make changes in programming at the customer's by using the keyboard, save the settings on the key and then update the data at the office on Hi-connect
 - If prior programming was stored on the key, control panel can be replaced at the customer's without reconfiguring the system
 - If 2 systems have to be created using the same keys and/or user codes, the key can be used to duplicate key codes and/or user codes
 - To improve safety, the key can be used as a BACKUP for configurations and codes.

WIRE ALARM SYSTEMS

MP504 SYSTEM: FROM 4 UP TO 24 INPUTS

Alarm control units

MP504TG cod. MP1J20111

Expandable Control panel (24 inputs max) with integrated telephone communicator

- 4 programmable inputs + 1 sabotage input, basic; expandable up to 24
- 2 programmable outputs (1 relais + 1 OC 150mA)
- Management of 24 user codes (from 4 to 6 digits)
- History file storing 500 events
- Weekly time programmer, 8 daily controls
- 1 field bus for the connection of: max. 8 display or LED keypads, max. 2 expansions
- ARM modes: AWAY or STAY
- Multilanguage menu: italian, french, english, spanish, german, polish, sloven, finnish
- Remote video check, video notifying further alarms
- Remote management through modem
- Digital transmission through numerical protocols and/or modem.
- Voice synthesis interface for remote alarms
- DTMF commands for remote management
- TCP/ IP interface for control panel connection with LAN or ADSL modem.
- Web video 4T interface (up to 4 video cameras) for connection with LAN or ADSL modem.
- USB interface for connection with local programming PC
- USB pen drive interface (standard type) to save and retrieve system programming
- HI CONNECT software application for programming and remote management (compatible with Windows Vista ®)
- Power supply : 14,4 Vdc +/- 1% 1,5°



MP504TG

PS515 cod. PS4200115

Power supply unit

- Input voltage: 220 - 240VAC 50/60Hz 0,6A
- Output voltage: : 14,4 VDC
- Max current : 1,5A
- Fuse: T2AL



PLASTIC BOX

Box

Plastic Box MP504/MT508 cod. MP4K30111

Plastic box

Plastic Box cod. MP0430111

Plastic box

Manuals

CD504 MANUALS MP504 SYSTEM cod. SW3800111

CD with installation and programmation manuals



CD 504

Control Items

KP500D/EN cod. KP6500111

Remote keypad with LCD alphanumerical display with 2 lines for 16 characters.

- Back light, contrast and buzzer, adjustable.
- 3 alarm control keys.
- User menu access with closed lid.
- 2 alarm inputs.
- Dimensions (H x W x D): 140 x 115 x 28 mm.



KP500D

WIRE ALARM SYSTEMS

MP504 SYSTEM: FROM 4 UP TO 24 INPUTS

Control Items

KP500L cod. KP4700111

LED keypad:

- 3 alarm buttons (panic, emergency, alarm)



KP500L

Expansion

EP508 cod. MP7K00211 (EN50131 compliant)

Parallel expansion which can be connected with system BUS where it is possible to connect traditional devices

- 8 inputs + 1 sabotage, programmable
- 3 outputs (1 relay + 2 electric), programmable



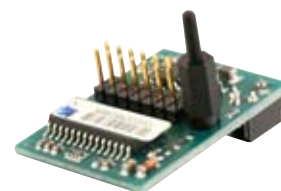
EP508

Accessories

SV504 cod. CT5410111

Voice synthesis board which can be connected with the control panel through the suitable connector (headphones provided)

- Record and listen of alarm messages sent from the telephone communicator



SV504

IT USB/KEY cod. MP5K10111

USB interface for connection to PC and to USB IT-USB/KEY keys.

- The IT-USB/KEY interface allows to connect a computer to the MP508TG or MP508M/TG control panel for control panel programming and a USB key (Pen Drive) for save and restore of the whole system programming.



ITUSB/KEY

MODEM cod. CT3900113

External modem to be connected with the PC for remote management.

HI-CONNECT cod. SW2400111

- Software for ELKRON control panel configuration, user friendly and easy to understand, working in Windows™ operating environment. Through this software it is possible to record and classify clients, systems and operators. In addition, it is possible to remotely program alarm control panels, acquire the resident configuration, check it, change it and then load it again in the control panel (up/downloading), acquire the system event memory, check in real time the system state, the input and output state, the battery and fuse state. Integrated function for technical alarm reception (modem needed).

VIDEO GATEWAY 4T cod. VDO800131

Video gateway module with 4 inputs for analogue video cameras

- Video gateway is used to integrate, into the system, up to 4 analogue video cameras that can be assigned to one or more system inputs. Images taken have a max resolution of 640 x 480 pixels. For connection to internet network, an Ethernet connector is available, through which video gateway can be connected to a LAN network, a modem or an ADSL router.
- Managing video gateway and transferring images is by an Ethernet connection on LAN or WAN network (through a Modem / ADSL Router, not provided).
- Dimensions (h x l x p): 238 x 340 x 90 mm.

INTERFACCIA ETHERNET cod. IT1200111

Interface which can be connected with the control panel

- Interface which can be connected with the control panel set for the connection with LAN or ADSL modem (not provided. System management through HI CONNECT software application).

WIRE ALARM SYSTEMS

MP200 SYSTEM

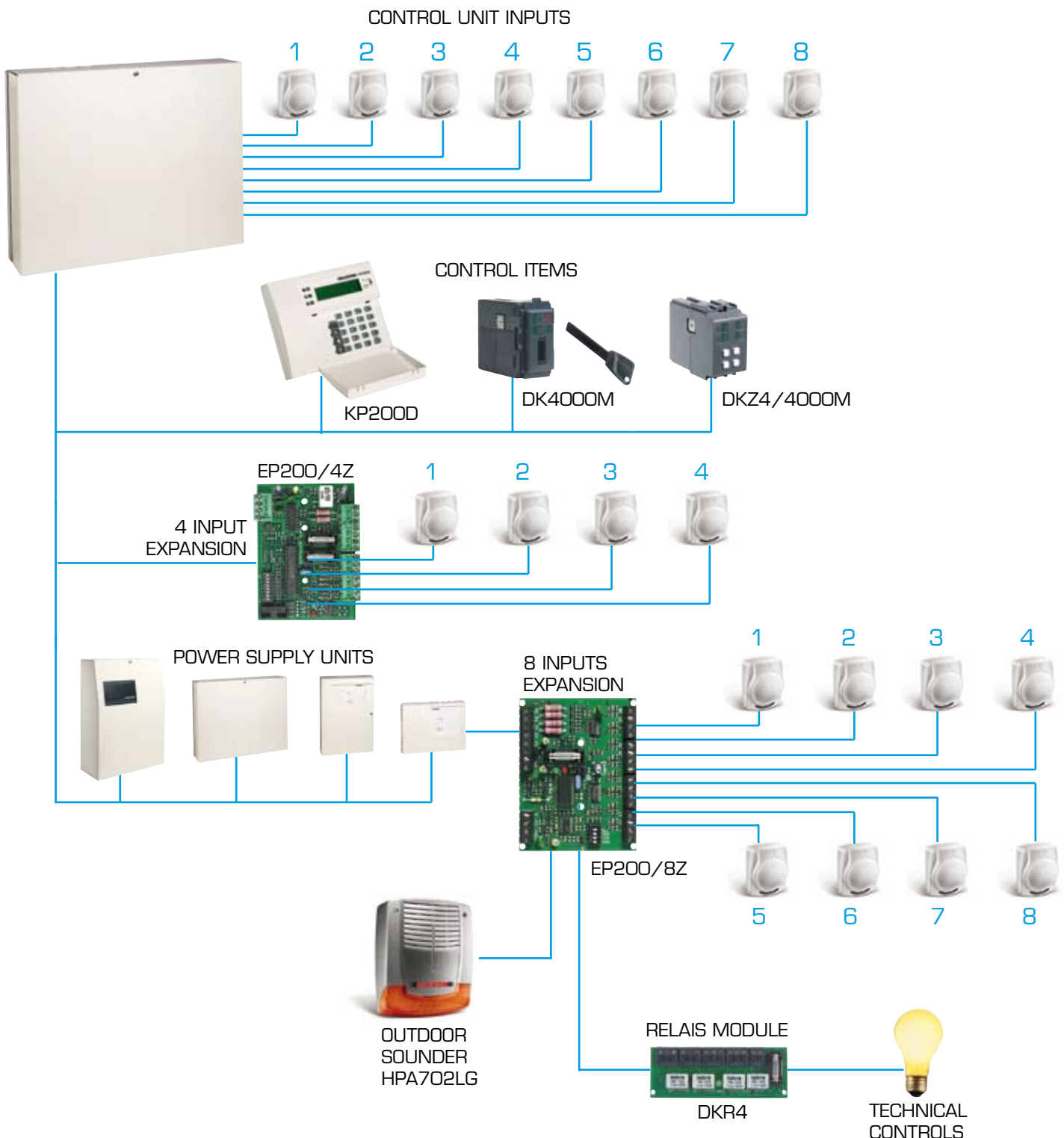


WIRE ALARM SYSTEMS

MP200 SYSTEM: FROM 8 UP TO 256 INPUTS

MULTI-FUNCTIONAL AND MULTI-USER REMOTE MANAGEABLE SYSTEM

A family of control units with 8 base zones, expandable up to 64 or until 256 with part set up to 12 groups. Here is the Elcron MP200 system for extended installation systems. In fact, the control units MP200 are expandable on serial line and have a complete range of common devices and for the plant management. The system is totally Remote manageable thanks to the keypad with LCD display, optic-digital key reader on the serial line and access with electronic mechanical key. The weekly date-time scheduler on monthly and annual base, permits the automatic enabling and deactivation of sectors. The hour calendar, instead, allows a complete recording of chronological event log of 300 or 1000. The use of the modem communicator permits remote Tele-management, while RS232 door offers Tele-management and local programming. MP200 is really a complete system, endowed with telephonic transmission with vocal synthesis, and it can also be used by up to 24 key readers, 12 partialisers and 24 remote keypads.



WIRE ALARM SYSTEMS

MP200 SYSTEM: FROM 8 UP TO 256 INPUTS

EASY TO USE

The guided menu on the keypad display allows an easy use with regard to the system programming and management. The clear writing of the name of the single zones (e.g. IR WAREHOUSE) , single codes and/or keys (e.g. JOHN DOE) and single sectors (e.g. OFFICE AREA) enables the final user to identify quickly and univocally the alarm or operation to be carried out.

MULTIFUNCTION

The zones and outputs are individually programmable to manage alarms or different conditions such as theft, 24H theft, tamper, robbery, fire, technical alarm, technical control, social alarm, On-Off, failure and other functions.

MULTI USER

Possibility of action at the same time from different key readers and/or different keypads. Management of sub-systems (separated plants) with one control unit, each of which can be in turn subdivided into one or more sector.

REMOTE MANAGEMENT

Through the Personal Computer and the Fast-Link Telemanagement software the engineer can remotely program and check the different systems installed through transmission (modem) on telephone line. All programming data can be loaded and unloaded, zones can be bypassed and reentered, output and battery tests can be made, the situation of the plant status and of the event log can be requested, output and battery tests can be made , etc.

ALARM TRANSMISSION

The MP200 system can transmit alarm conditions on telephone line programmable in three different ways: via modem to a centre equipped with personal computer and Fast-Link software; with DTMF numeric protocol (chosen among the various available on the board); to a telemonitoring centre with messages recordable in voice synthesis. In the modem and numeric transmission (for those protocols allowing it) the data transfer to the receiving centre requires the "point-point" information, i.e. relevant to every single alarmed zone.

MODEM - COMMUNICATOR STM200

Module for alarm telephone transmission, for remote control and for system remote programming.

CLOCK CALENDAR AND TELEPHONE PROGRAMMER

The MP200 system is provided with calendar clock for the chronological classification of the events and the control of the time programmer. This programmer offers a high management flexibility through different and fully programmable daily and weekly timetables. In addition to the antitheft system arming/disarming, it can be associated to other functions, such as technical control.



WIRE ALARM SYSTEMS

MP200 SYSTEM: FROM 8 UP TO 256 INPUTS

Alarm control units

MP200/64 cod. MP6300111

Expandable (up to 64 zones) microprocessor based high security system

- Microprocessor based control unit provided with 8 zones, expandable up to 64 using two kind of expandable cards: 4 zone input/3 outputs and 8 zones input/6 outputs
- Fully programmable zones, as immediate, timed, final door, panic, technical, social alarm, pre-alarm
- Programmable part set up to 12 groups.
- Single and double input balancing
- Fully programmable facilities: AND facility, COURTESY LIGHT facility, PRESENCE SIMULATION facility, CHIME facility
- Up to 16 remote keypads: LCD message keypads with backlight
- Plain language display of system conditions and messages, plain language instructions for system operations.
- Up to 16 integrated optical key readers and up to 8 partialiser for full ON/OFF system control by optical key
- Access control function through DK40 optical keys
- Clock calendar function.
- Timer programmer for various events, such as group ON/OFF, access control, patrol passage, technology output switching
- Up to two independent RS485 serial bus lines for system expander control
- One built-in RS232 serial port for local PC or printer connection
- Plug on modem/digital communicator and speech dialler
- System locally programmable from a PC over RS232 line or remotely programmable via modem (in option) over telephone line: data uploading and downloading through a dedicated software running under WINDOWS
- Allocable battery: 12Vdc - 18Ah.
- Power supply: 2,8 Ah.
- Dimensions (H x W x D): 318 x 422 x 91 mm.



MP200/64

MP200/64-OM cod. MP6200211

As above but in larger case suitable for a 12 V - 27 Ah battery

- Dimensions (H x W x D): 447 x 324 x 148 mm.



MP200/64-OM

MP200/256 cod. MP6500211

As above with the following differences:

- Expandable up to 256 zones.
- Programmable part set up to 24 groups.
- Up to 24 remote keypads.
- Up to 24 integrated optical key readers and up 16 partialisers.
- Up to three independent RS485 serial bus lines for system expanders control.




MP200/256-OM cod. MP6400211

As above but in larger case suitable for a 12 V - 27 Ah battery

- Dimensions (H x W x D): 447 x 324 x 148 mm.

MP200 PLUS cod. MP6400311 F NF-A2P

As above but with NF-A2P certification

MODEL	Quality Certification	
MP200/64-OM		2° liv.
MP200/256-OM		2° liv.
MP200 PLUS		



WIRE ALARM SYSTEMS

MP200 SYSTEM: FROM 8 UP TO 256 INPUTS

Control Items

KP200D/I cod. KP2700211 (Italian Menu)

Backlit remote keypad with 16 digit LCD display for clear message visualisation

- Integrated backlight LCD display, incorporated buzzer.
- The device is used to program and control the system, to which they may be partially or totally associated (control and management of one or more sectors).
- Dimensions (H x W x D): 140 x 115 x 28 mm.



KP200D

KP200D/F cod. KP2700311 (French Menu)

As above but with NF-A2P certification

DK4000M cod. DK2100211

Reader for opto-digital key.

- These are devices for optical/digital reading and decoding of DK 40 digital keys. They are used for activating/deactivating relevant sectors each time a recognised optical key is introduced. They are fitted with 4 LEDs for signalling specific system events. They are addressed by rotary switches
- It is available in White color version with code DK4000M/B.



DK4000M

DK40 cod. DKO100211

Opto-digital key (patented)



DK40

DKZ4/4000M cod. DK2600211

4 Inputs splitter.

- These devices work in association with DK 4000M readers and are used for partial activation/deactivation of associated sectors.
- They fit 4 keys, each of which is associated to a system sector, and 4 LEDs for signalling sector status. They are addressed by rotary switches
- It is available in White color version with code DKZ4/4000M/B.



DKZ4/4000M/B

Expansions

EP200/4Z cod. MP6700111

I/O modules for connection on RS485 serial lines, providing 4 zones and 3 outputs (1 relay and 2 electric)

- All zones and outputs may individually programmed as is the case with the control unit. Concentrators are connected via an RS485 serial line and acknowledged via a programmable dip-switch address.
- The equipment is supplied in modules and is suitable for a range of locations: in special cases (CP8Z), in the back-up supply units or even in the C.U. case.
- A direct interface connector to the back-up supply units uses a serial BUS line to convey trouble-shooting information (power failure, low battery, error) to the control unit.



EP200/4Z








EP200/8Z

EP200/8Z cod. MP6700111

Same as EP200/4Z but with 8 inputs and 6 outputs (2 relais and 4 electric)

- The 4 electric outputs present on the EP200/8Z may become relay outputs by installing a DKR4 module with direct coupling connettors.

MODEL	Quality Certification	
KP200D/I	 2° liv.	 Versione KP200D/F PLUS
DK4000M	 3° liv.	
DK40	 3° liv.	
DKZ4/4000M	 3° liv.	



WIRE ALARM SYSTEMS

MP200 SYSTEM: FROM 8 UP TO 256 INPUTS

Communication

FAST LINK cod. SW1300111

Software for Data uploading and downloading

- Data uploading and downloading through a dedicated easy-to-use, user-friendly running over Windows. The same software is already in use for remote management of other Elkron Systems. This software permits to record and classify customers, systems and operators. It also permits the following: remote control panel programming, control panel program downloading, program verification and editing, program uploading to control panel, system event log downloading, real time checking of system, input, output, battery and fuse status.

MODEM cod. CT3900113

External modem to connect to PC for telemonitoring functions

STM200 cod. CT4110211

Modem Communicator

- Telephone alarm transmission board for remote management and remote programming of the system.

Accessories

DKR4 cod. DK0900211

Relay circuit.

- 4-relay circuit with quick connector coupling. Can be used with EP200/8z, DK41S.

IT485 cod. MP9110211

Serial interface

- RS485 serial interface for connecting remote keypads and/or commutators and partialising devices.

SV108 cod. CT3210111


Vocal synthesis module

KV 100 cod. CT3410111

Voice synthesis kit consisting of microphone and speaker

IV 4Z cod. MP9610111

Interface board equipped with 4 storable alarms inputs and 4 electric outputs, one for each input. The board transforms the fast signals coming from equipment such as vibrators, shutter sensors, etc into signals manageable by alarm control unit.

MODEL	Quality Certification
EP200/8Z	 2° liv.

