

KB 506 / 510

TWO CHANNELS CONTROL-BOX FOR *DIGITEN, MICROTEN, DIGICAP* KEYPADS, *DALLAS, DENVER*, ELECTRONIC KEYS AND *PROXIMITY SYTEMS*

Main features:

- **2 relays**: 10A/30V DC, resistive load. Do not apply to the relay's contacts voltages over 30 V dc or 24 V ac.
- **2 separate data lines.**
- Power supply: from **12 to 24 V ac/dc**
- **510** codes / keys maximum.
- **Impulsive or permanent contact** of the relays.
- State memory of the relays.
- Outputs for **LED** of relays **contact**.
- Output for **Tamper alarm** open collector (max 50mA) 30 s.
- Output for **LED programming mode** (normally ON).
- Output for printer interface PF 202.

TOTAL ERASING AND PROGRAMMING

- 1 – Press and hold down the push-buttons **P1** and **P2** on the control-box for 6sec. The red LED of the controller, normally ON, will quickly flash.
- 2 – Release the two push-buttons: **wait, at least, for 20 sec.:** during this operation, the memory of the control-box is totally erased. At the end, the control-box automatically enters in programme mode. The LED on the control-box, on *DIGITEN* keypad and programme mode (if connected) begins to slowly flash.

STORING THE CODES:

***DIGITEN / MICROTEN* keypad:** The extension of the code is **from 1 to 7 digits** and depends from how many digits are entered, without a break, the first time, after a total erasing operation. So:

- 3 – Store the first code with the extension required (this extension must be kept for the other codes). Wait for 4 sec.: the red LED will shortly flash to confirm the code has been stored. The first stored code is the **Master code: it does not activate the relays but** allows to enter in programme mode immediately via *DIGITEN / MICROTEN*.
- 4 - Store the other codes. For each code, when the correct number of digits is entered, end the code with digit 1 to make it valid on the first relay, end it with digit 2 to make it valid on the second relay.
To valid the code on both relays you must enter the code twice: the first time you must end the code with digit 1, the second time you must end the code with digit 2. The red LED shortly flashes to confirm the code has been stored on the desired relay.

When you store a code, don't let pass more than 4 sec. between two digits; in this case, in fact, it will be necessary to start again from the first digit of the code.

via *DIGICAP* keypad: each code can have an extension between 1 and 7 digits. Enter the code and end it with the push-button A to store it on the first relay or with the push-button B to store it on the second relay.

To exit programme mode, enter a valid code.

STORING THE KEYS:

- 5 - ***Dallas* or *Denver*** electronic keys, follow this procedure:
Touch the key against **only one** of the two readers for a while. The programme mode LED will shortly flash. Each key is automatically stored and made valid on both the relays.
The first stored key is the **Master key**. It works like all the others and allows to enter in programme mode directly from a reading point.
- 6 – To exit programme mode, touch a valid key against a reader.
The programme mode LED flashes for a while and then remains ON.

STORING THE PROXIMITY CARDS, AND TAGS:

- 7 - There are two models of proximity readers: **Proxyrem A** (identified by the letter printed on the back of the reader) to activate relay A and **Proxyrem B** to activate relay B. Both of them must be installed on **data line n°1, terminal board n° 5**. When the control-box is in programme mode:
Lean the card or tag against **Proxyrem A** if you want to store it and make it valid on the first relay: the programme mode LED (if connected) will shortly flash to confirm the operation.
Lean the card or tag against **Proxyrem B** if you want to store it and make it valid on the second relay: the

programme mode LED (if connected) will shortly flash to confirm the operation.

To exit programme mode, touch a valid card against a reader: the programme mode LED (if connected) flashes for a while and then remains ON.

WORKING

DALLAS or DENVER keys: Touch a valid key against reader 1 to activate relay 1.

Touch a valid key against reader 2 to activate relay 2.

DIGITEN or MICROTEN keypad: Enter a stored code and end it with a further digit, **odd** to activate relay 1, **even** (or zero) to activate relay 2.

Example: if the stored code is **1234**

Further extension of an **odd** digit: **12341** or **12343** will activate the relay 1

Further extension of an **even** digit: **12342** or **12344** will activate the relay 2

DIGICAP keypad: enter a valid code and end it with A to activate relay 1, with B to activate relay 2.

PROXIMITY CARDS and TAGS: Pass a valid card near Proxyrem A to activate relay 1.

Pass a valid card near Proxyrem B to activate relay 2.

STORING ADDITIONAL CODES OR KEYS

It is possible to store additional codes – keys – cards and tags in the control-box without a total erasing operation.

From the control-box: press and hold down the push-button **P1** for 6 sec.: the red LED on the control-box turns off.

After 6 sec., the red LED begins to slowly flash, release P1; the control-box has entered in programme mode.

Store the additional codes and remember that:

Codes from DIGITEN / MICROTEN: the extension (number of digits) of the new codes cannot be different from the others already stored: to change the extension of the codes it's necessary to make a total erasing operation.

Codes from DIGICAP: each code can have an extension between 1 and 7 digits. Enter the code and end it with the push-buttons A or B.

Via DIGITEN keypad: Enter **Master code** and end it with an **odd** or **even** digit: the control-box enters immediately in programme mode without activating the relays.

Example: if the Master code is **3345** you can enter **33451** or **33452**

When the additional codes have been stored, remember to exit programme mode.

Via DIGICAP keypad: Enter **Master code** and press and hold down A or B for 6 seconds, after this time the control box enters in programme mode.

When the additional codes have been stored, remember to exit programme mode.

Via Master key: press and hold down the **Master key** against the reader until the programme mode begins to slowly flash. The control-box is now in programme mode and it is possible to store additional keys and codes.

When the additional codes have been stored, remember to exit programme mode.

Via Master Card or Master Tag: keep Master Card or Master tag near one of the two proximity readers for 6 sec.; then, programme mode LED will begin to flash and it will be possible to store new cards or new tags.

When the additional cards or tags have been stored on the proper relay, remember to exit programme mode.

CONTACTS OF THE RELAYS

DIP 1	RELAY 1	DIP 2	RELAY 2
OFF	BISTABLE	OFF	BISTABLE
ON	IMPULS.	ON	IMPULS.

IMPULSIVE CONTACT OF THE RELAY:

placement of the duration:

Shut down the power supply to the control-box.
Press the push-button **P1** for the duration of **relay 1** or the push-button **P2** for the duration of **relay 2**.
Press and hold down the desired push-button and, in the same time, give power supply to the controller.

Hold down the push-button and count the flashes of the red LED on the control-box, considering that:
1st flash = 250 ms (minimum contact duration)
2nd flash = 1 second
3rd flash = 2 seconds
4th flash = 3 seconds and so on.
Release the push button when the desired duration is gained. Maximum duration of the impulsive contact: **31 seconds**.

SPECIAL FUNCTIONS

TAMPER alarm output – terminal board n°13. It activates (closes to negative) at the 4th attempt (during a period of 30 sec.) at tampering or after 8 sec. of continuous transmission .

To reset Tamper alarm, enter a valid code, a valid key, a valid card or wait for 30 sec.

PF 202: terminal board n°15 can be connected to our printer interface PF202 in order to have a written documentation of the operations made via KB 506. For further information, see manual of PF202.

ADDRESSED ERASING AND STORING

It is possible to make an addressed erasing via **Key Killer, DIGICAP, DIGITEN & MICROTEN keypads**.

- Via KEY KILLER: set the number of the location to erase on the numerical commutators of the **KEY KILLER**. Send the control-box in programme mode, using the push button P1 on the controller or via Master key or Master code. Touch the **KEY KILLER** against reader 1 for a while: the undesired key or code is now erased; this operation is confirmed by a short flash of the programme mode LED.
After the cancellation, the controller remains in programme mode. If you wish to exit programme mode: touch the reader with a valid key or switch off the power supply of the controller for a while.
If, instead, you stay in programme mode, the next key you will store will be placed in the location just erased before (**addressed memorisation**) and it doesn't matter if that location was occupied by another code or was already empty. Examples:
If there are 10 stored keys and you wish to erase key n°6: set on Key Killer 0006, send the control-box in programme mode and touch the reader n°1 with the Key Killer.
If there are 10 stored keys and you wish to store a new key into location n°15: set on Key Killer 0015, send the control-box in programme mode and touch the reader n°1 with the Key Killer "to erase" the location 15. Then, the next key you are going to store will be placed into location n°15.
Anyway, if you don't make any cancellation, a new key will be stored into the first empty location of the memory of the control-box.
- Via DIGICAP: send the control-box in programme mode. Enter the number of the location you need to erase preceded by 5 zeros and press the push button A. Examples:
000003 + A to erase the key or the code into location n°3
0000025 + A to erase the key or the code into location n°25
000001 + A to erase the Master key or the Master code.
Via DIGITEN / MICROTEN: send the control-box in programme mode. When you are in programme mode, the red LED on MICROTEN flashes slowly. Enter 5 zeros + the number of the location to erase, without other zeros. Wait for some seconds after the last digit is entered. Then the location will be empty. The control box remains in programme mode. If you wish to exit programme mode: touch the reader with a valid key or switch off the power supply of the controller for a while.

NOTE

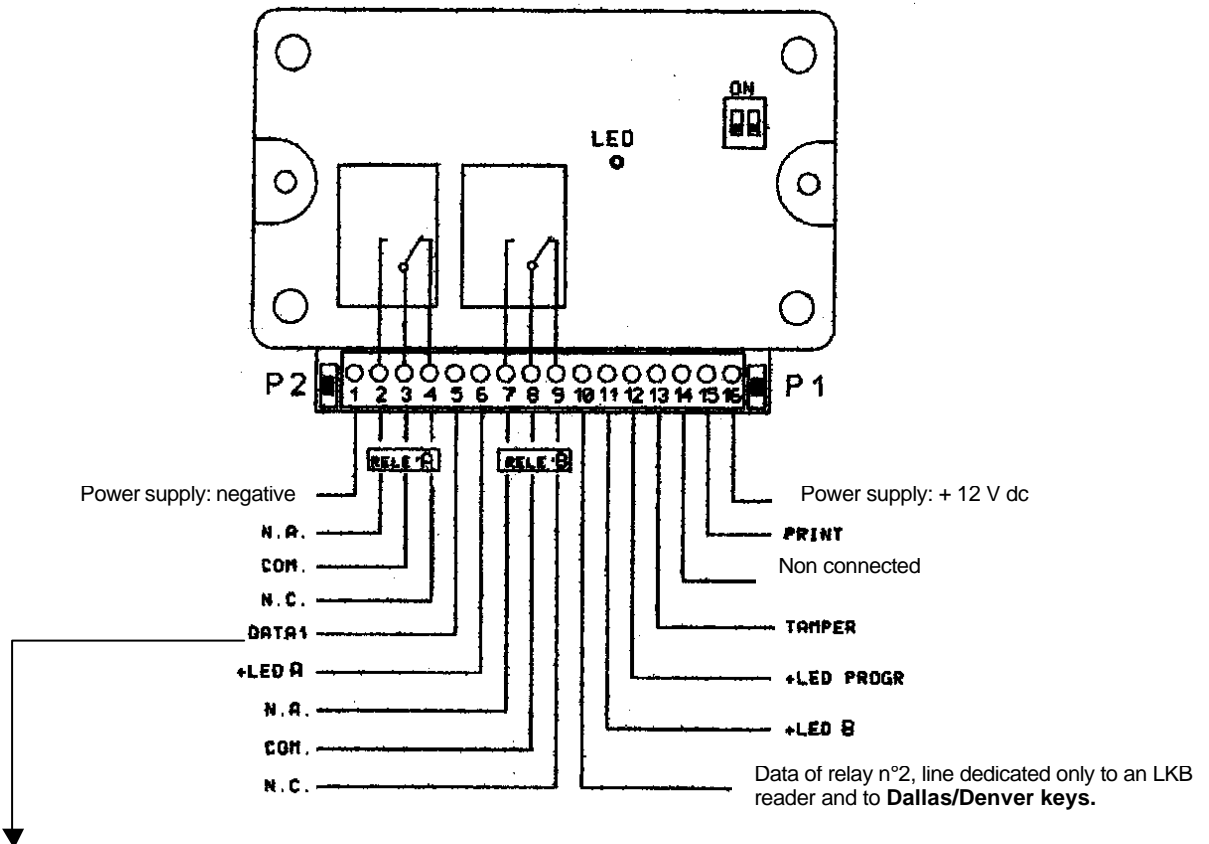
It is not possible to connect more control-boxes in parallel on the same readers.

Maximum length between reader and the control-box: 150 meters!

Maximum length between each Proxyrem reader and the control-box: 200 meters!

Do not use shielded cables.

We suggest to use wires similar to telephone cables.



This *dataline* is for:
LKB reader for **Dallas - Denver** keys
DIGITEN - MICROTEN keypads
DIGICAP keypads and
 Proximity readers:
PROXYREM A and **PROXYREM B**

