

KB 504 / 510 - 03

ONE CHANNEL CONTROL-BOX FOR *DIGITEN, MICROTEN, DIGICAP* KEYPADS, *KEY BIT, DALLAS, DENVER, KEY VIBELECTRONIC KEYS* AND *PROXIMITY READERS*

Main features:

- **1 relay**: 10A/30V DC, resistive load.
- Relay contacts: **C-NC-NO**
- Power supply: from **12 to 24 V ac/dc**
- **510** codes.
- **Impulsive or permanent contact** of the relay.
- State memory of the relay.
- Output for **LED** of relay **contact**.
- Output for **remote exit button**.
- Input for **"any key accepted"**
- Output for **LED programming mode** (normally ON).
- Output for printer interface

TOTAL ERASING AND PROGRAMMING CODES & KEYS

- 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 for 20 seconds** until the memory has been erased. At the end, the LED on the control-box, on *DIGITEN* keypad and programme mode (if connected) begins to slowly flash. By this operation the memory has been totally erased. The control-box automatically enters in programme mode.

STORING THE CODES:

via *DIGITEN* / *MICROTEN* keypad: The extension of the code is from 1 to 8 digits and depends from how many digits are entered, without a break, the first time, after a total erasing operation.

- 3 – Store the first code with the extension required. 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** and allows to enter in programme mode directly via *DIGITEN* / *MICROTEN*.
- 4 - Store the other codes. For each code, when the correct number of digits is entered the red LED shortly flashes to confirm the operation. 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 8 digits. Enter the code and end it with the push-buttons A or B.
To exit programme mode, enter a valid code.

STORING THE KEYS:

- 5 - Touch the key against the reader for a while. The programme mode LED will shortly flash. 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, KEYS AND TAGS:

- 7 - There are two models of proximity readers: **Proxyrem A** (identified by the letter printed on the back of the reader) and **Proxyrem B**. Both of them can be installed on this decoder. Lean the card against Proxyrem for a while. The programme mode LED will shortly flash. To exit programme mode, touch a valid card against the reader. The programme mode LED flashes for a while and then remains ON.

STORING ADDITIONAL CODES OR KEYS

It is possible to store additional codes or keys 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*: 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 8 digits. Enter the code and end it with the push-buttons A or B.

Via DIGITEN keypad: Enter **Master code:** the control-box enters immediately in programme mode without activating the relay.

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 those 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 keep Master Card near one of the two proximity readers for 6 sec.; then Programme mode LED will flash and it will be possible to store new cards, or codes.

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

TIME SETTING OF THE RELAY

DIP 1	RELAY
OFF	BISTABLE
ON	IMPULS.

**ATTENTION: dip n°2
does not operate
anything**

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's contact**.

Press and hold down P1 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 4^h attempt (during a period of 30 sec.) at tampering or after 8 sec. of continuous transmission .

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

PF 202: terminal board n°15 can be connected to our printer interface in order to have a written documentation of the operations made via KB 504. For further information, see manual of PF202.

AKA: when terminal board n°14 of the decoder is connected to the negative, any key / code is accepted by the control-box even if is not stored.

P.T.E.: terminal board 10 of the control-box can be connected to a remote exit button (grounded) to activate the relay of the controller for the duration of its impulse.

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 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 controllers 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 Proxyrem reader and the control-box: 200 meters!

Do not use shielded cables.

