

INSTRUCTIONS FOR INSTALLATION AND USE OF CONTROL UNIT EP095CM WiFi

Multi-Pull

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1. GENERAL INFORMATION

The "EP095CM" control unit allows a shooting range to be run, in a fully automatic way, in the overall sporting disciplines suitable today.

This unit is a multipurpose unit that can operate in several operating mode:

- Manual recharge of chip cards
- WiFi release of targets in single or double with or without chip card mode
- WiFi release of targets in a Round mode, with 25 targets, with or without chip card mode
- WiFi adjust of trap machines, horizontal and vertical movements, continuous or by pulse commands

2. COMPOSITION

The unit "EP095CM" consists of the following elements:

- plastic box with a keyboard, LCD display, chip card input, battery compartment

3. TECHNICAL CHARACTERISTICS OF THE UNIT

Power:

no. 4 rechargeable battery AA 1.2v 3000 mAh each

Autonomy:

in standby mode: 19 hours

throwing clays at power level 1: 27.000 clays

throwing clays at power level 5: 25.000 clays

WiFi frequency:

865KHz ÷ 867KHz

Maximum output power:

27 dBm

Sensitivity:

-109 dBm

Operating temperature range:

0°C ÷ +45°C

Dimensions:

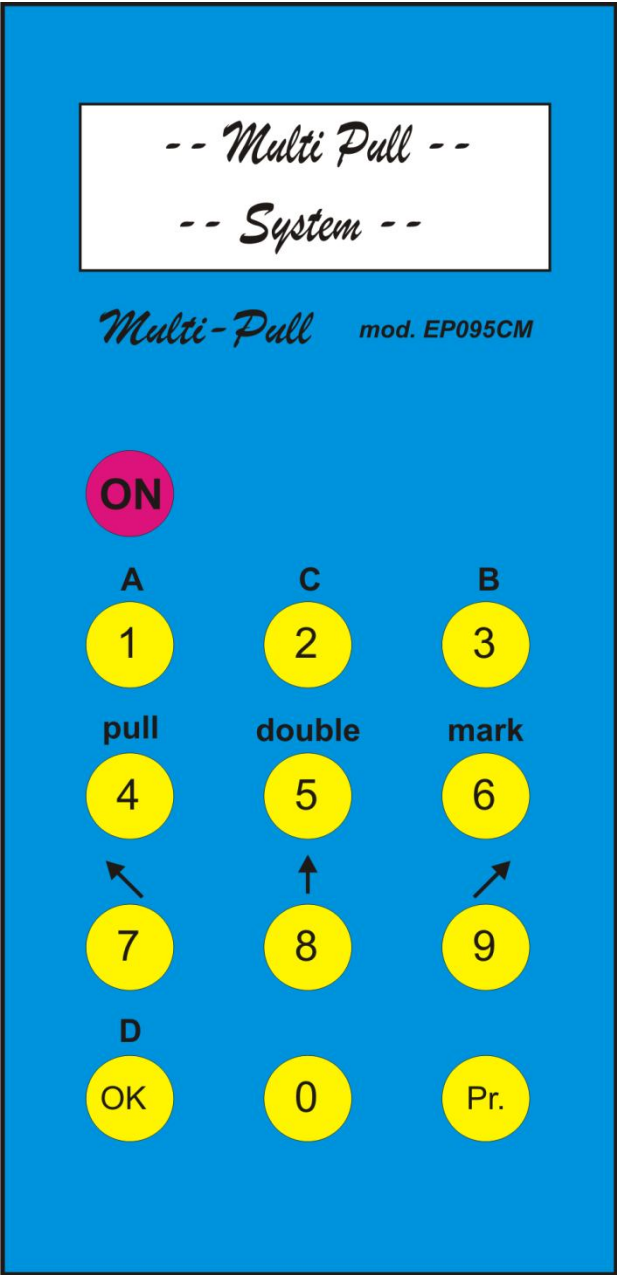
195 x 100 x 50 mm.

Total weight:

0.5 Kg.

4. OPERATION

The following figure show the main console front panel

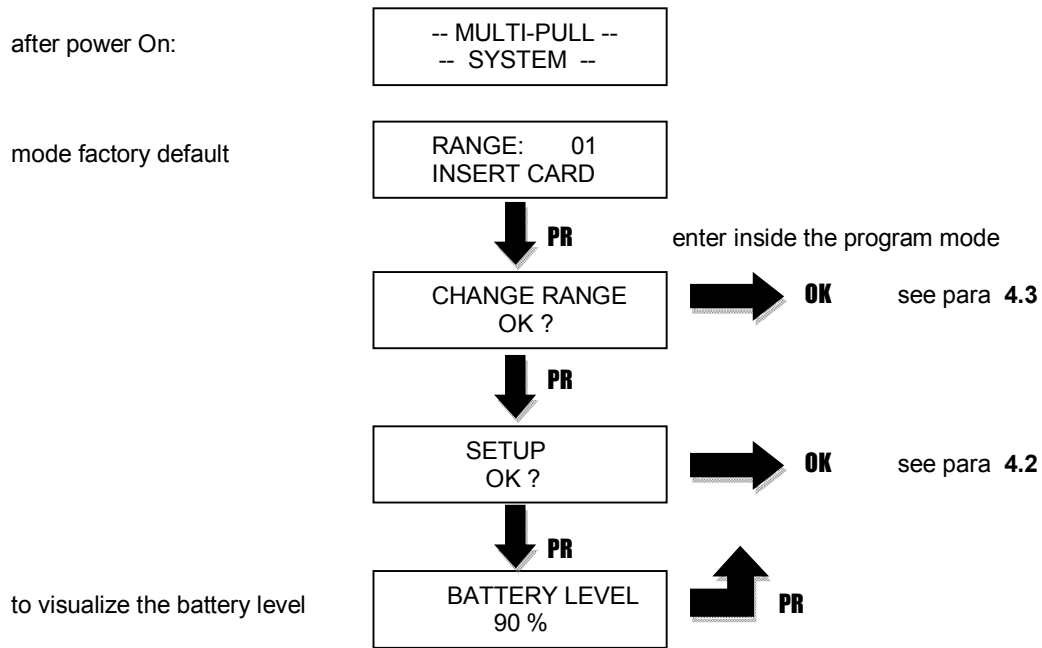


Front panel of EP095 CM

NOTE: In case the unit have the Power On button on the lateral side, the On button on the front panel will be disabled

4.1 Operation: Starting the Unit

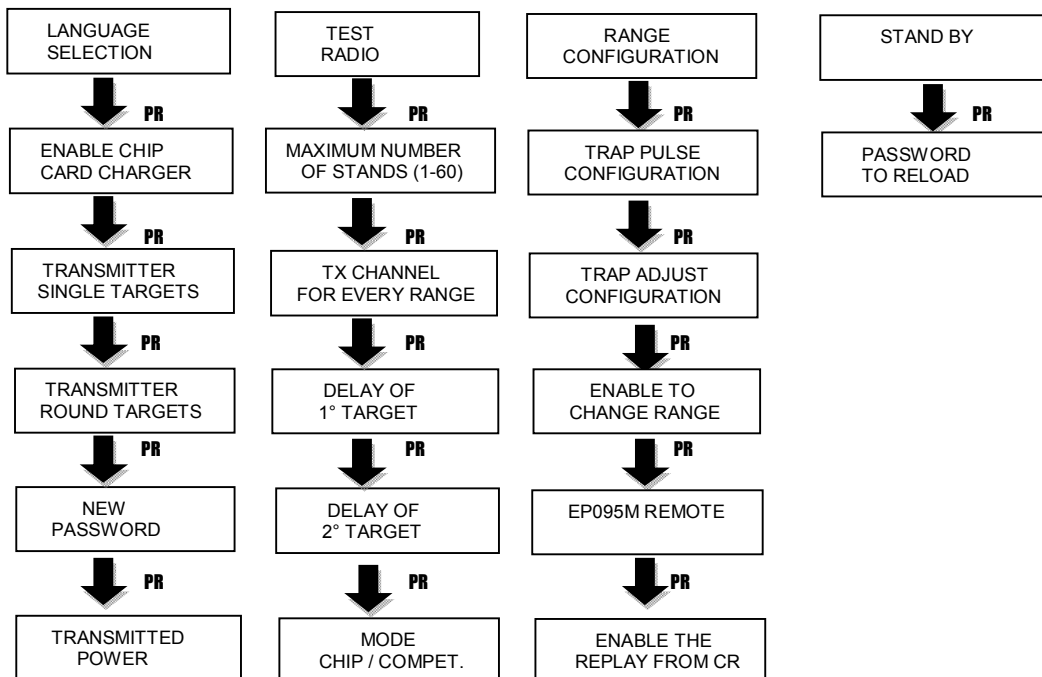
By referring to the display and the keyboard unit, operate in the following way



4.2 Operation: Setup



enter the Password of the Club composed by 8 numbers. factory-defined value: **12345678**
 If the correct password is entered will appear in succession all the unit's configuration, in the following sequence:



by pressing **PR** will return to the first configuration: " LANGUAGE SELECTION "

To select one of the unit's configuration, press the **OK** button. To get out of this phase and return to the current operating mode, press any of the buttons from **0** to **9**. The following message will appear

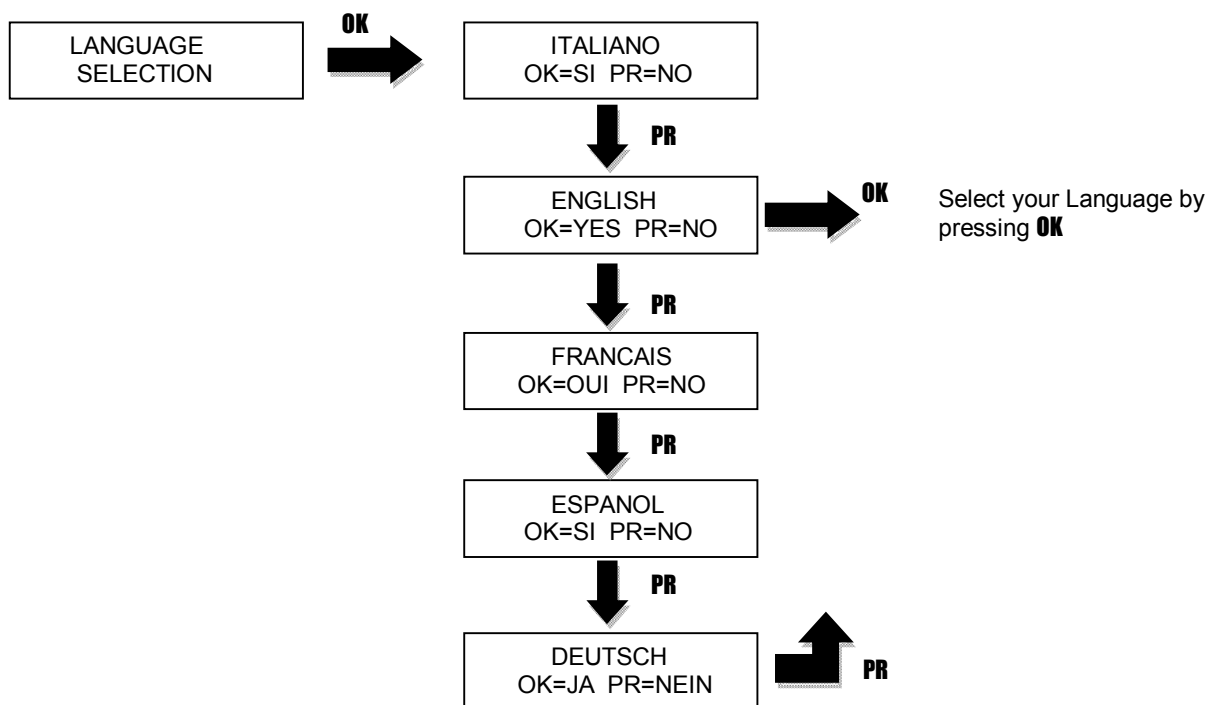
EXIT SETUP
 OK=YES PR=NO

It's possible to exit from Setup or continue for another configuration by pressing **OK** or **PR** buttons.

NOTE: only when you exit from Setup the new configuration will be stored inside the unit.

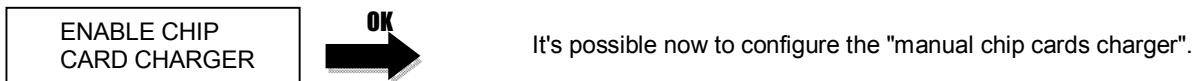
4.2.1 Operation: Setup - language selection

Upon reaching this possible configuration, press the **OK** button

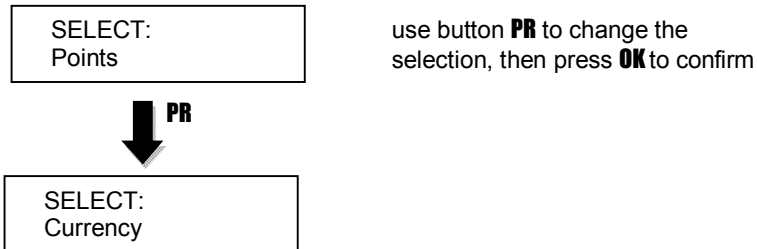


4.2.2 Operation: Setup - enable chip card recharge

Upon reaching this possible configuration, press the **OK** button



Select how to manage the credit inside chip cards: with Points or with a Currency:



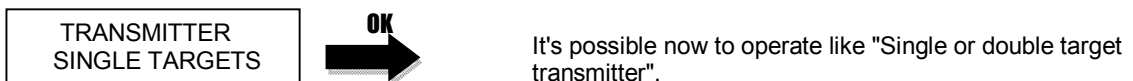
The POINT means that chip cards can manage a credit between 0 and 999 point.

The CURRENCY means that chip card can manage a credit between 0 and 9999,99. Then the Club can use this operating mode to charge a credit inside the chip cards corresponding to the standard currency used

After the above operations the unit will be ready to operate like "manual chip cards charger".
See para 4.4 how to operate.

4.2.3 Operation: Setup - WiFi trasmitter for single/double targets

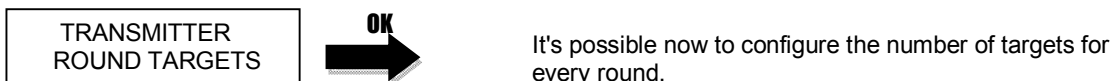
Upon reaching this possible configuration, press the **OK** button



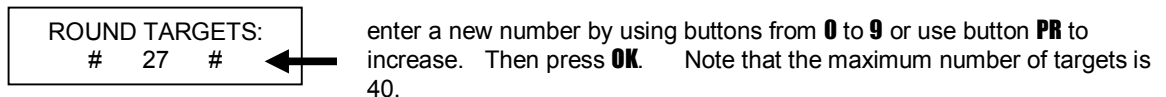
NOTE: to accept the chip cards of the Club, it's necessary to insert the correct password of the club. That can be done manually by using the setup menù (see para 4.2.5) or automatically by inserting the Master Card

4.2.4 Operation: Setup - WiFi trasmitter for a Round

Upon reaching this possible configuration, press the **OK** button

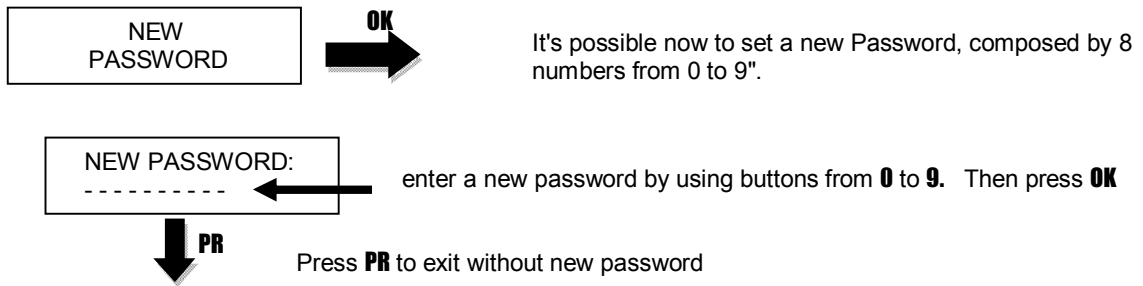


Select the number of targets for every round



4.2.5 Operation: Setup - New Password

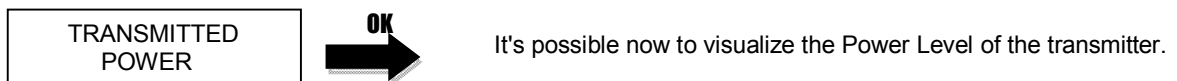
Upon reaching this possible configuration, press the **OK** button



NOTE : if you have a Master Card, simply insert it into the unit that all data, Password Club and costs of the series, will be stored automatically

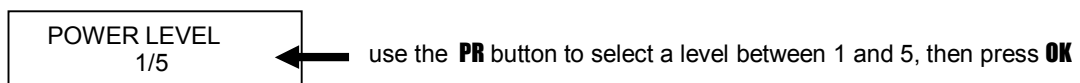
4.2.6 Operation: Setup - Power of the transmitter

Upon reaching this possible configuration, press the **OK** button

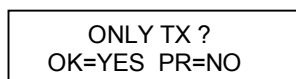


Because the receivers can be at different distances, it's possible for every range and for every receiver, to setup a different power level to be used.

Select the power level you want use for a receiver. The total receivers are 8.

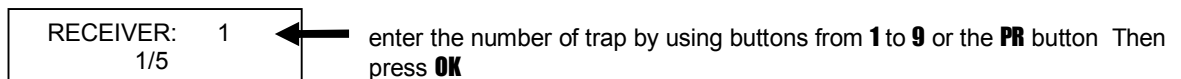


Select if the new Power Level must be the same also on the receiver or it is an absolute value of the Transmitter. Select this last option if no replay from the receiver is requested.



In case the operator select an absolute value of Power only for the transmitter, immediately the unit will store the new value and will exit from this "setup mode".

In case is selected the option that also the receiver must have same power of the trasmitter for his replay, then select the number of one trap connected to a receiver for which you want to define the level of transmitted power:



Immediately the unit will send this command to the selected receiver that will setup the same level for his transmitted power during the replay to the unit.

The operator must adjust the power level for every used receiver. In case the receivers are single (EP095CR1), that is one for every trap machine, the operator can adjust the power level in a different way for every receiver. In case the receivers are multiple (EP095CR8, that have 8 outputs for 8 traps, or EP095CR2, that have 2 outputs for 2 traps) it's enough to setup the power level of only one exit connected to one receiver.

The transmitter, will have always same power: the maximum necessary for all receiver.

Normally power level = 1 is suggested and is normally enough to operate in a shooting range.

4.2.7 Operation: Setup - Test Radio

Upon reaching this possible configuration, press the **OK** button

TEST RADIO



It's possible now to test the WiFi of the selected range

Select the number of one receiver for which you want to make a WiFi test:

TEST RADIO
RECEIVER: 1



enter the number of the receiver by using buttons from **1** to **9** or the **PR** button Then press **OK**

Immediately the unit will start the test, sending some codes and receiving the response from the selected receiver. This operation will be repeated for 8 times. On the display will appear the power level of the received power and the number of the operation (from 1 to 8)

SIGNAL LEVEL
67% 1/8

after the test the unit will exit from this setup

4.2.8 Operation: Setup - Maximum Number of Ranges

Upon reaching this possible configuration, press the **OK** button

MAXIMUM NUMBER
OF STANDS (1-60)



It's possible now to configure the units for a maximum number of ranges. This value must be between 1 and 60

The display will show the actual number of ranges used for this unit

RANGES N.(1-60):
12



enter a new maximum number of ranges by using buttons from **0** to **9** or use button **PR** to increase. Then press **OK**

Once you selected a maximum number of ranges, the unit will operate only with this number.

4.2.9 Operation: Setup - Frequency Channel Selection

Upon reaching this possible configuration, press the **OK** button

TX CHANNEL
FOR EVERY RANGE



The unit is configured for every range with a different channel. Because the maximum number of ranges are 60 while the maximum number of channels are 12, some range must use same channel. The standard configuration is set by the factory to have channels far in frequency for adjacent fields. Anyway the operator can modify this configuration.

Select the Range for which you want to change the channel:

No. STAND: 01



enter the number of range by using buttons from **0** to **9** Then press **OK**

Select the new Channel for the selected range:

No. STAND: 01
TX CHANNEL: 09



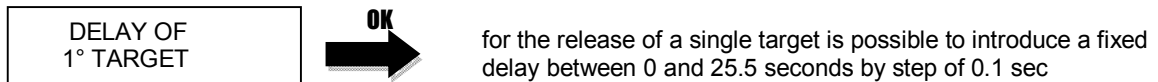
enter the number of channel by using buttons from **0** to **9**. Then press **OK**

At every instant you can get out of this configuration by pressing the button **PR**.

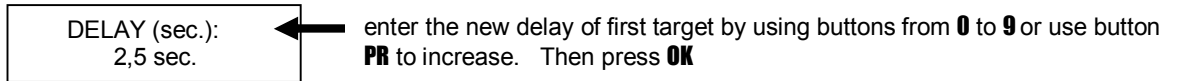
NOTE: If a new channel is used for a range, all receiver (EP095CR1 or EP095CR8) must be changed in order to be able to operate on the new channel

4.2.10 Operation: Setup - Delay of First target

Upon reaching this possible configuration, press the **OK** button



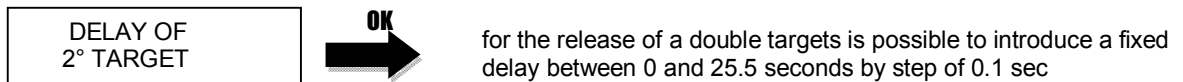
Select the delay:



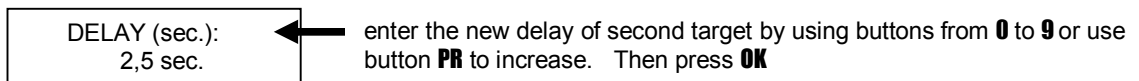
All single targets will have the above delay by pressing any button of the keyboard.

4.2.11 Operation: Setup - Delay of Second target respect the first

Upon reaching this possible configuration, press the **OK** button



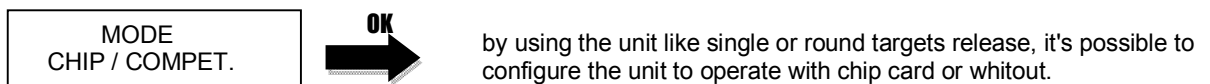
Select the delay:



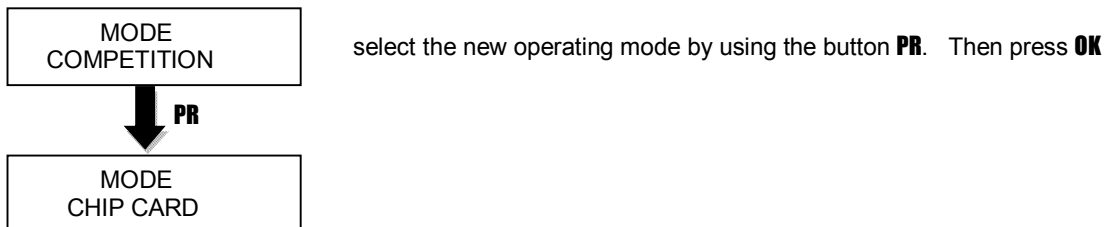
All double targets will have the above delay by pressing any button of the keyboard.

4.2.12 Operation: Setup - Chip Card / Competition

Upon reaching this possible configuration, press the **OK** button



Select the operating mode:



4.2.13 Operation: Setup - Select the used trap machines

Upon reaching this possible configuration, press the **OK** button

RANGE
CONFIGURATION



It's possible to configure for every range, the trap machines that can be used and how can be used: directly driven from this unit or true the connected EP095M control unit.

Select the number of Range:

RANGE: 1



RANGE: 1
TRAP: 1 used

enter the number of channel by using buttons from **0** to **9** or the **PR** button to increase. Then press **OK**

select the trap by using the **PR** button. Then select how the selected trap can be used:

0= not used

1= used

2= used true the EP095M control unit

At the end of this programming press **OK**

4.2.14 Operation: Setup - Select the pulse duration for the used trap machines

Upon reaching this possible configuration, press the **OK** button

TRAP PULSE
CONFIGURATION



It's possible to configure for every range, the pulse duration of every used trap machines.

Select the number of Range:

RANGE: 1



RANGE: 1
TRAP: 1 0,2sec

enter the number of channel by using buttons from **0** to **9** or the **PR** button to increase. Then press **OK**

select the trap by using the **PR** button. Then select the duration of the releasing pulse by using the button **1**. This value can be selected between 0,2 sec till 1,7 sec.

At the end of this programming press **OK**

4.2.15 Operation: Setup - Select the pulse duration for the adjustment of used trap machines

Upon reaching this possible configuration, press the **OK** button

TRAP ADJUST
CONFIGURATION



It's possible to configure for every range, the pulse duration and type for the adjustment of every used trap machines.

Select the number of Range:

RANGE: 1



RANGE: 1
TRAP: 1 0,2sec

enter the number of channel by using buttons from **0** to **9** or the **PR** button to increase. Then press **OK**

select the trap by using the . Then select the type and duration of the adjust pulse by using the button **1**. This value can be selected between single pulse of different duration till a countious pulse.

At the end of this programming press **OK**

4.2.16 Operation: Setup - Enable to Change the Range Enable to Change the Range

Upon reaching this possible configuration, press the **OK** button to enable the "Change of Range" or **PR** button to disable the "Change of Range".

In order to change the Range, the operator must enable this operation, then exit from the Setup Mode, then enter inside the Change Range Mode and change the number of range.

In case the unit must be configured for only one range, it's necessary to enter again inside the setup mode and disable this function.

4.2.17 Operation: Setup - EP095M Remote

Upon reaching this possible configuration, press the **OK** button to enable the unit to become a "Remote Controller" for the EP095M unit.

The Range number must be the same as configured inside the EP095M to be controlled.

By using this unit (EP095CM) it's possible to control in a remote way the control unit EP095M if this unit have the "Remote function from CM" enabled.

4.2.18 Operation: Setup - Enable the replay from CR

Upon reaching this possible configuration, press the **OK** button to select how the unit will discount points from Chip Cards: always or only after a replay from the Receiver.

Normally the unit is setup to discount points from Chip Cards only if a correct replay from the receiver is arrived, in order to be sure points are discounted only for a secure target release.

But if the unit is used in "Competition Mode" or if transmission conditions are not very safe, it's suggested to disable the replay from the receiver to discount points from Chip Cards.

4.2.19 Operation: Setup - Stand By

Upon reaching this possible configuration, press the **OK** button to select press the delay after which the unit will go into standby mode if no operations are performed. The delay can be between 1:30 min till 30:00 min, by step of 30sec.

4.2.20 Operation: Setup - Password to Reload

If it's requested to use a second password to reload the chip card, on the "chip card charger" configuration, it's possible with this setup operation to input a new value. Before to proceed for the new password input the old. By default the password is 1111111. If the new password is 0000000 that means disable this additional secure during reloading chip card.

4.3 Operation: Change number of Range



enter a new range number, write the range number by using buttons from **0** to **9** or use button **PR** to increase Then press **OK**

If you select a new number of range the WiFi transmitter will automatically change the frequency channel according to the following table. All receivers WiFi used for the new range, should be selected for the same frequency channel

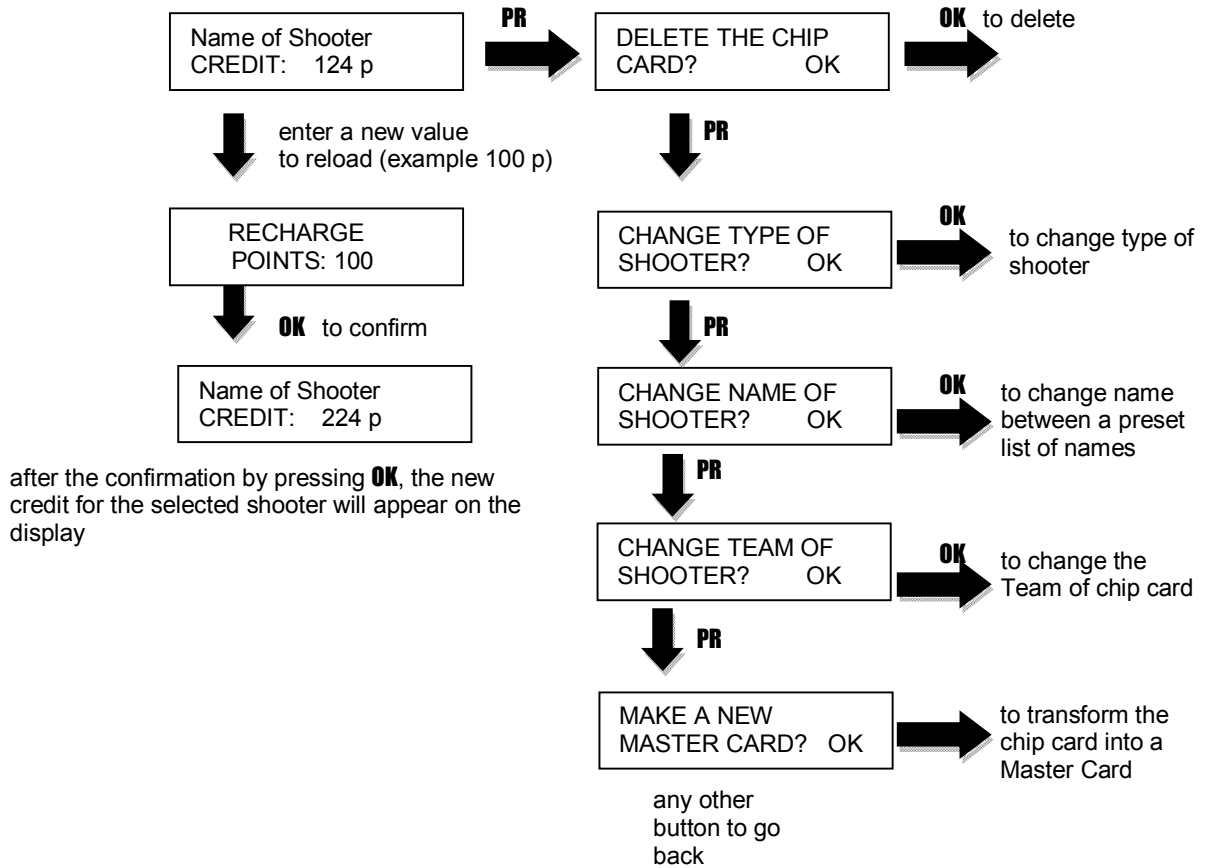
Range	WiFi Channel	Range	WiFi Channel	Range	WiFi Channel	Range	WiFi Channel
1	1	16	2	31	3	46	4
2	5	17	6	32	7	47	8
3	9	18	10	33	11	48	12
4	2	19	3	34	4	49	1
5	6	20	7	35	8	50	5
6	10	21	11	36	12	51	9
7	3	22	4	37	1	52	2
8	7	23	8	38	5	53	6
9	11	24	12	39	9	54	10
10	4	25	1	40	2	55	3
11	8	26	5	41	6	56	7
12	12	27	9	42	10	57	11
13	1	28	2	43	3	58	4
14	5	29	6	44	7	59	8
15	9	30	10	45	11	60	12

4.4 Operation: Manual Chip Card Recharger

To configure the unit as "manual chip cards charger" proceed as described above.
The following message will appear on the display

CARD CHARGER
INSERT CHIP CARD

To reload a chip card must be inserted into the driver, immediately the following message will appear on the display:



NOTE : if the recharge is exceeded the maximum capacity of the chip card, a special message will be presented and the recharge is canceled

Entering a Master Card:

If you enter a valid Master Card inside the unit, on the display will appear the message if you want to proceed.

If you press YES (**OK**), then the data of the Master Card will be charged inside the unit.

If you press NO (**PR**), then there is the possibility to modify the Master Card with new values or to delete the chip card.

4.5 Operation: Single/Double WiFi targets release

To manually release a target it's necessary:

1. insert a chip card inside the unit (if the "chip card" mode have been selected)
2. press any button of the keyboard between 1 till 9.

Immediately the unit will send, by using the WiFi, a message to the receiver and, if the receiver is active, will release the target with the delay of first target selected on the setup (between 0 and 25,5 sec).

Then the receiver will send back to the transmitter a feedback and only after receiving this feedback the unit will detract the price of the single target from the chip card.

Then, if the receiver will not well receive the command, or is not active, no money will be discounted from the chip card.

For a double target, operate as follow:

1. insert a chip card inside the unit (if the "chip card" mode have been selected)
2. press the **OK** button the keyboard.
3. press any button of the keyboard between 1 till 9 to select the first trap machine
4. press any button of the keyboard between 1 till 9 to select the second trap machine

Immediately the unit will send, by using the WiFi, a message to the receiver and, if the receiver is active, will release the two targets with the delays of first and second target like selected on the setup (between 0 and 25,5 sec).

Then the receiver will send back to the transmitter a feedback and only after receiving this feedback the unit will detract the price of the single target from the chip card.

During the game, it's possible to introduce a delay before the target release: press **0** button, then will appear the existing time delay (between a value of 0 and 7 sec). Adjust the value you need with buttons **1** or **2**, then press **OK**

It's possible at any instant to adjust the trap machines on the range.

1. Enter a chip card inside the unit
2. Press the **PR** button
3. Then press any button from 1 till 8 compliance the setup made from the operator of the range, in order to adjust the trap machines.

4.6 Operation: Round WiFi targets release

Once the discipline and the number of shooters have been chosen, operate as following in order to start the sequence

RANGE: 01 0/6 INSERT CARD

the 0/6 indicate that 0 shooters are booked on a maximum value of 6.

Insert a chip card to book a round for a shooter, then press **OK**
The display will show that one shooter is booked for a round.

RESERVATION OK N. SHOOTERS: 1

Insert another chip card to book a round for another shooter, then press **OK**
The display will show that two shooters are booked for a round.

RESERVATION OK N. SHOOTERS: 2

Continue till maximum 6 shooters.
Without chip card the display will show the following.

RANGE: 01 3/6 INSERT CARD

the 3/6 indicate that 3 shooters are booked on a maximum value of 6.

To start the game press **OK**. The display will follow:

TARGETS NUMBER # 81 #

this number indicate how many targets are available for the round.

During the game, it's possible to adjust the trap machines on the range.

1. Press the **PR** button
2. Then press any button from 1 till 8 compliance the setup made from the operator of the range, in order to adjust the trap machines.

During the game, it's possible to introduce a delay before the target release: press **0** button, then will appear the existing time delay (between a value of 0 and 7 sec). Adjust the value you need with buttons **1** or **2**, then press **OK**

Introducing a Master Card during a game, it's possible to change the number of targets remaining by pressing:

- 1** = to reduce the number of targets
- 2** = to increase the number of targets
- 0** = to delete the number of targets

By removing the Master Card the normal operation will resume.

4.7 Operation: Remote control of EP095M

By using this unit (EP095CM) it's possible to control in a remote way the control unit EP095M if this unit have the "Remote function from CM" enabled. See the manual instruction of the EP095M.

Once you exit the setup, press the **OK** button to connect the EP095CM to the EP095M: immediately on the display of the EP095CM will appear the discipline is running on the EP095M.

Select a shooter in chip card like usual on the EP095CM. In case the chip card is disabled, use button **9** to select the shooters.

The list of commands available to control the EP095M are in the following:

- OK:** to visualize the discipline
- 1:** up for discipline
- 2:** down for discipline
- 3:** Start a round

When a round is started it's possible to shoot like usual by using microphones on the EP095M unit. From the EP095CM it's possible to operate like the following:

- 1:** Pause for EP095M
- 2:** No Bird for EP095M
- 3:** Start for EP095M

There are on the EP095M some manual disciplines that can be operated from the EP095CM:

Manual Trap:

Select from the EP095CM the stand (from 1 to 5) by using buttons **1-5**, then release a target Right/Centre/Left by using the buttons **7-8-9**

Manual DTrap:

Release a target scheme A or C or B by using the buttons **1-2-3**

Manual Single DTrap:

Release a target from trap 7 or 8 or 9 by using the buttons **1-2-3**

Manual Skeet:

Release a target Pull or Double or Mark by using the buttons **4-5-6**

Manual Sporting WiFi:

Release a target by using the buttons from **1** to **9** like in the "Single Target" operating mode. That is it's possible to drive trap machines by using the EP095CR receiver or the EP095M unit, depending the "Range configuration".

Introducing a Master Card during a game, it's possible to change the number of targets remaining by pressing:

- 1** = to reduce the number of targets
- 2** = to increase the number of targets
- 0** = to delete the number of targets

During the game, only for **Manual Sporting WiFi**:

pressing **0** button: it's possible to reset the EP095M or introduce a delay before the target release. The value of this delay can be adjusted with buttons **1** or **2**, then press **OK**

pressing **PR** button: it's possible to adjust some trap, press again **PR** button to exit from this operation mode

pressing **OK** button: it's possible release a double target: press a button corresponding to the first trap, then a second button corresponding to the second trap and the double is released (with a delay if have been selected a delay)

For other standard disciplines of EP095M control unit, by pressing the press **0** button it's possible to RESET the unit.

5. GUARANTEE AND ASSISTANCE

Elettronica Progetti products are guaranteed to the original purchaser for two years from the date of purchase as shown on a valid receipt issued by the seller.

This guarantee does not affect the consumer's rights under European Directive 99/44/CE regarding certain aspects of the sale and guarantee of consumer goods; consumers should address claims under these provisions to the retailer where they purchased the goods.

This guarantee is effective in countries where European Directive 99/44/CE has been implemented. Local guarantee legislation applies in other countries.

During the guarantee period, Elettronica Progetti will repair products with defects in workmanship or materials at no charge to the customer for either labour or materials.

Travel expenses are at charge of customer.

To have work performed under guarantee, consumers must contact an Authorized Elettronica Progetti Technical Assistance Centre, or the Elettronica Progetti company at the following address:

Elettronica Progetti
Via Traspontina, 25
00040 Ariccia (RM) – Italy
Tel.: +39 06 9342181
Fax: +39 06 9344987
Email: info@elettronicaprogetti.com

Before to send the unit to repair, operate like described:

1. Specify the type of failure
2. Specify the serial number of the control unit (see the label on the bottom)
3. Wait for the autorization to send back to the factory the unit