KL73 KLAMER
RCS-10

Digital Switch

Instruction Manual

READ THIS MANUAL BEFORE USING THIS EQUIPMENT

KL73 ELECTRONIC

29590- Malaga

Spain

KLAMER RCS-10 USER MANUAL

The Klamer RCS-10 is a device designedñdesigned to automate the switching change processeithern antennas in radio communication equipmenteithern. Its main functioneithern is to change the Ameritron RCS-10 control which is manual and make it automatic. By doing so alsoandWe can't work remotely on changing antennas.

* **Automatic band change:**When the radio communication equipment changes bands automatically, the Klamer RCS10 detects this change and activates the necessary mechanisms to connect the corresponding antenna. In other words, the device selects and connects the appropriate antenna completely autonomously.

* **Antenna change automation:**When you change bands on your Icom, the Klamer detects this change via the CAT cable and automatically switches to the corresponding antenna on the Ameritron RCS-10.

* **Ease of installation:**You just need to connect the four wires from the Ameritron to the Klamer following the diagram on the board. There is no need to change wires manually.

* **Information on screen:**The Klamer shows the current frequency and band on its display.

* **Programmability:**The included software allows you to configure the antennas and their corresponding bands.

* **Remote Connection:**Once programmed, the Klamer RCS-10 connects to the radio communication equipment. This connection is made easily, without the need to configure IP, DNS or open ports, which makes implementation much easier.

ADVANTAGES OVER THE AMERITRON RCS-10 HANDHELD

- **Greater comfort:**Eliminates the need to manually change antenna cables.
- **Greater efficiency:**Allows you to change bands quickly and without errors.
- **Equipment protection:**Prevents possible damage to the switch due to incorrect connections.
- **Versatility:**It can be configured to work with different types of antennas and bands.
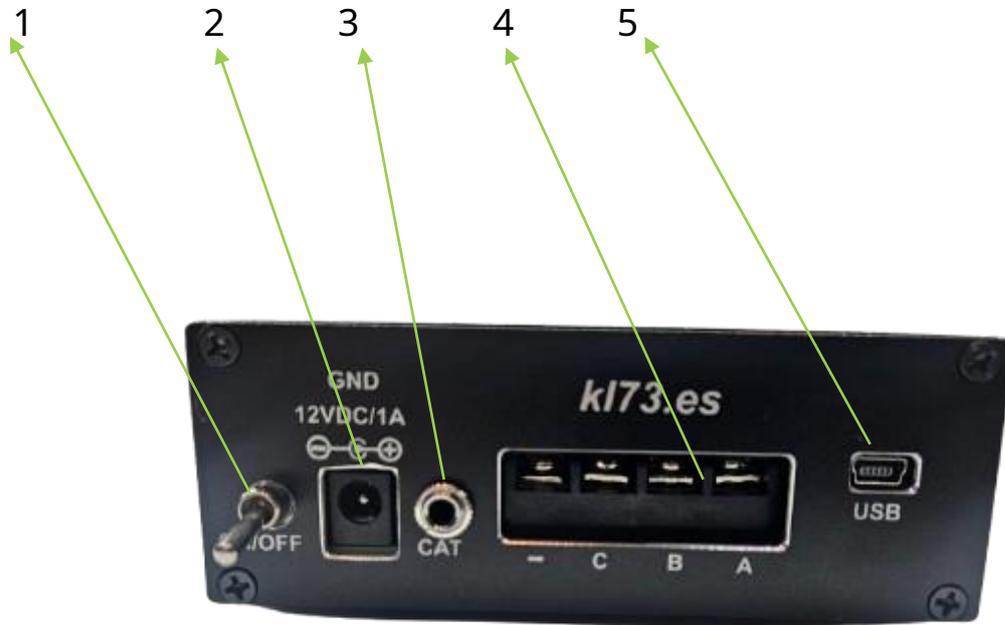- **Available bands:**6,10,12,15,17,20,30,40,60,80,160

Connection

* **Disconnect the wires from the Ameritron remote:**You must disconnect four specific wires from the Ameritron Remote and connect them to new points, following a pattern of letter correspondence (AA, BB, CC) and a negative ground wire.

* **Connect Cat cable:**Connect the Jack supply cable from Klamer to the CAT input on the Icom equipment.

KLAMER RCS-10 USER MANUAL

1-ON-OFF

2-12VDC/1A

3-CAT ENTRY

4- OUTPUT TO RELAYS 5-

USB PROGRAMMER

Detailed procedure for setting up the Klamer RCS-10:

1.**Software download:**
- either Access the website**kl73.es**.
- either Find and download the software**Klamer RCS-10**. This file will usually have the extension.exe.

2.**Hardware Connection:**
- either **Run the downloaded file:**Double click on the file klamer_rcs-10.exeto start the application.
- either **Connect the power:**Plug the 12V cable into the Klamer RCS-10 and into a suitable power source.
- either **Connect the USB cable:**Connect one end of the USB cable to the Klamer RCS-10 and the other end to an available USB port on your computer.

3.**Initial configuration:**
- either **Select port:**In the Klamer RCS-10 application, choose the COM port to which the device is connected. This port is usually displayed in a drop-down list.
- either **Click "Connect":**Once the correct port has been selected, press the "Connect" button to establish communication between the application and the Klamer RCS-10.

4.**Antenna configuration:**
- either **Define the configuration:**In the app interface, you will find options to configure the frequency bands for your antennas. Make sure that these settings exactly match the physical configuration of your Ameritron equipment.
- either **Save the settings:**Once you have verified that the settings are correct, press the "Write" button to save the changes to the Klamer RCS-10.

5.**Restart and End:**
- either **Wait for completion:**A green progress bar will be displayed on the screen while the configuration data is being written to the device.
- either **Auto Restart:**Upon completion of writing, the Klamer RCS-10 will automatically reboot.
- either **Full configuration:**Once the device has rebooted, the setup is complete and the Klamer RCS-10 is ready for use.
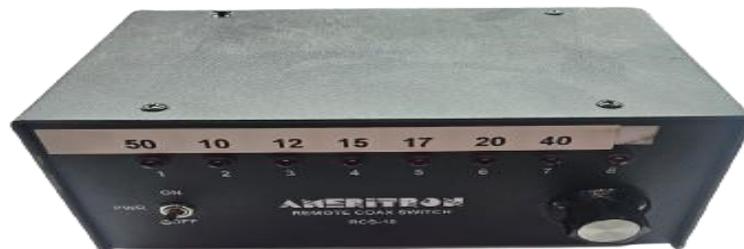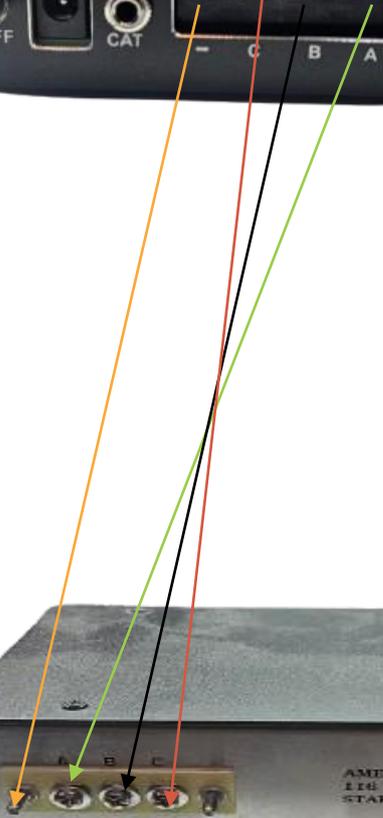
Additional Tips:

- **Check the connections:**Before you start the setup, make sure all cables are connected properly and securely. **See the manual:**If you
- have any questions, please refer to the Klamer RCS-10 user manual for more detailed information.
- **Software Updates:**Keep your Klamer RCS-10 software up to date to benefit from new features and improvements.

Antenna configuration example.

1- 6m
2- 10m
3- 12m
4- 15m
5- 17m
6- 20m
7- 40m
8- 160m

SWITCH BOX CONTROL

Control signals use a three-wire system (plus ground). Control signals are BCD coded. In this system, the control wires are designated A, B, and C, and operate with an assigned value of A=1, B=2, and C=4. assigned value of A=1, B=2, and C=4. Using this system, three wires can count from zero to seven. The relay box selects up to eight antennas using the following scheme:

	Ant 1	Ant 2	Ant 3	Ant 4	Ant 5	Ant 6	Ant 7	Ant 8	
A (1)	Off	On	Off	On	Off	On	Off	On	160mA
B (2)	Off	Off	On	On	Off	Off	On	On	80mA
C (4)	Off	Off	Off	Off	On	On	On	On	40mA

The change is made by increasing the 12V DC

Warning

Before transmitting, check the SWR for possible programming and/or connection errors.

LEGAL NOTICE

The information contained in this manual is intended for the user only and is not intended to replace information contained in customer regulations, technical manuals/documents, position manuals or other official publications. The copy of this manual provided to the customer will not be updated to reflect current data.

Customers using this manual should report any errors or omissions, recommendations for improvements, or other comments to KL73.ES at kl73@kl73es. Phone: 655-827-695

Business hours: Monday to Friday 9 a.m. to 2:30 p.m.

LIMITED WARRANTY

Kl73 warrants to the original purchaser that this product will be free from defects in material or workmanship for one year from the date of original purchase.

 1 year from the date of original purchase. During the warranty period, Kl73 (or an authorized Kl73 service center)

will provide, free of charge, the parts and labor necessary to correct defects in material or workmanship.

To obtain such warranty service, the original purchaser must

1. 1. Notify kl73 or your nearest authorized technical service as soon as possible after discovering a possible defect,

of:

a. The model number and serial number, if applicable:

b. The identity of the seller and the approximate date of purchase;

c. A detailed description of the problem, including details about the equipment.

2. 2. Deliver the product to Kl73 or the nearest authorized technical service, or send it in its original or equivalent container, fully insured and with shipping costs paid in advance.

Correct maintenance, repair and use are important to obtain proper performance from this product. Therefore, please read carefully

the instruction manual. This warranty does not apply to any defect that kl73 determines is due to:

1. 1. Improper maintenance or repair, including the installation of parts or accessories that do not conform to the quality and specifications of the original parts.

2. Misuse, abuse, neglect or improper installation.

3. accidental or intentional.

All implied warranties, if any, terminate one (1) year after the original purchase invoice date.

LIMITED WARRANTY

The foregoing constitutes the entire obligations of Kl73 with respect to this product, and the original purchaser and any user or owner shall not be entitled to any claim for incidental or consequential damages.

The original purchaser and any user or owner shall not be entitled to any claim for incidental or consequential damages. Some states do not allow limitations

on the duration of an implied warranty or do not allow the exclusion or limitation of incidental or consequential damages, so

The above limitation and exclusion may not apply to you.

KL73.ES

ELECTRONICS FOR RADIO AMATEURS

29590-MALAGA

SPAIN