



Pigeon Control System LH-120

INSTALLATION MANUAL

General Orientations:



For the perfect functioning of the apparatus it is essential to NOT change any item of the Project! Any alteration or change will only be made in Applied Physics Labs.

! Violation of the system results in the loss of warranty

In addition, it is extremely important to follow each step outlined in the Pigeons Out Control System's operating procedures for its total efficiency.

All essential material will be supplied by Pigeons Out, such as Capacitors, Steel Wire/Flat, Reactor LH-120 etc.

Safety Warnings



This equipment carries electrical current at high voltages, which may provoke serious injuries. Only qualified capable professionals may perform tasks in the components of the system.

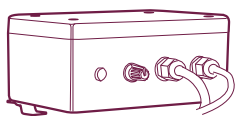


The usage of gloves and boots for electrical protection of class III is mandatory at all times when using the system.



Works at elevated heights must be done according to the security standards applicable to this type of work. Falls could result in serious injuries or even death. Prior to the installation and before the work begins, the robustness of the keyboard must be verified and the means of suitable access of the location must be studied. Evaluate the necessity of installing lifelines!

Content of System



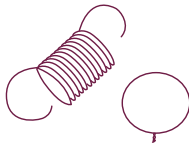
Reactor
LH-120



Conventional
Capacitor



Clamp
Capacitor



Spring / Ring



Reel of Flat Wire



Flat Wire Support

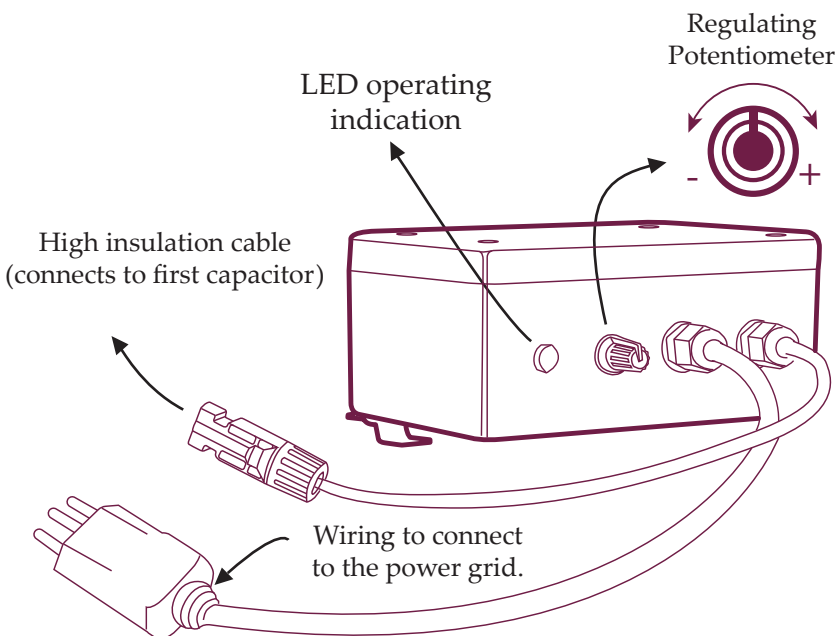


High insulation
Cable



Electromagnetic
Detector

Reactor LH-120



PIGEON CONTROL SYSTEM

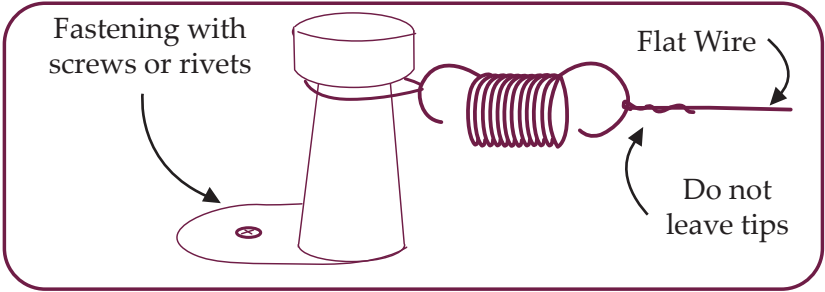
MODEL: LH-120

100V - 220V~ AC / 50/60 Hz

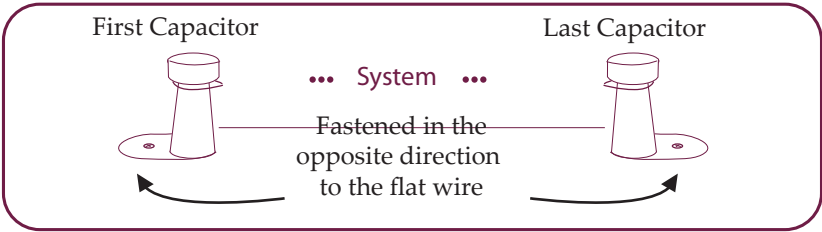
V	A	W	V Saída
110V	87 mA	11W	1,44 kV
220V	150mA	33W	2,5 kV
*Maximum values of the potentiometer with load			

Attaching Capacitors

The capacitors will be attached to the roofing tiles, metallic structure, mounted on gutters etc, according to the structural characteristics found and previously analyzed.



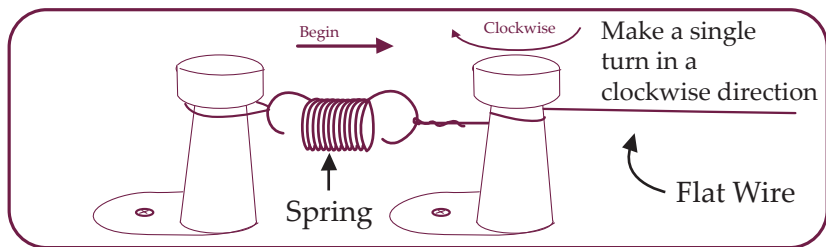
Each capacitor should be fastened with screws or rivets round the whole perimeter of the roof, with a spacing of 6-foot-6 between each capacitor, with a maximum of 100 capacitors for each reactor.



When fastening the first capacitor it is necessary to have the metal base fastened on the side opposite to the initial direction of the system. The last capacitor should be fastened keeping the position of the metal base in the opposite direction to the flat.

Flat Wire Installation

Insert the ring in the initial capacitor and interconnect it to the spring, which in turn, will make connection and the proper voltage matching between the Flat Wire and the first ring. Then, continue extending the Flat Wire by passing around each capacitor with a single turn in a clockwise direction, until at the end the wire is twisted without leaving any tips.



Risk of electric shock! Obligatory use of PPEs

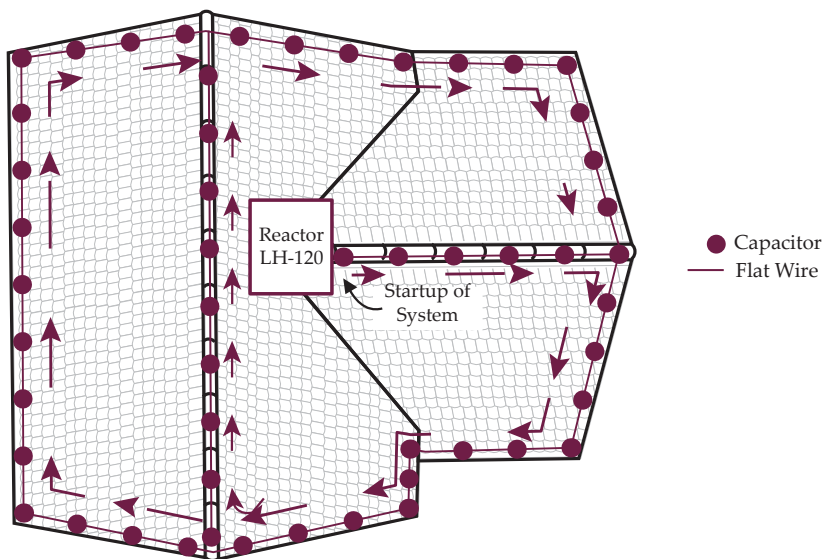


NOT to turn clockwise correctly on each capacitor implies operating problems!



Breaking the Flat Wire or its contact with any metal parts, branches etc, may interrupt the operation of the system.

Illustration of Assembly Scheme



Disposal of electric and electronic components

Never dispose of any electric or electronic equipment, or undifferentiated waste residues.

The electric and electronic components must be recycled to any electric point at the end of your life cycle.

NOTE: This does not apply to accessories or old electronic equipment. However, those must be separated and disposed by following local and recycling guidelines.



The EEE contains dangerous substances harmful to human health and the environment.

This device complies with PART 15 and 18 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The verifications bellow must only be done by qualified and trained professionals for the installation / maintenance of the electromagnetic system of pigeon control.

Problems	Action/Verification
Constant occurrence of dead birds by getting stuck on the wires.	Verification - change the position on the capacitors, certifying that they are installed close to the borders, so that the wire passage stays as close as possible to the sides or borders of the roof.
1- Detector of electromagnetic field does not make a continuous Beep sound when activated next to the capacitors.	Perform a detector test, disconnect the MC6, activate the detector, above of the reactor. If it does not make a beeping sound, either the reactor or detector indicates problem. Moreover, perform a detector test (verification 1) and if it's OK, perform a reactor test (verification 2).
Test of the electromagnetic field detector.	Verification 1- Verify if the detector is pointing in the correct direction, with a 2in proximity. After, exchange the batteries of the detector. In case it continues, the detector itself could be damaged. If the detector is OK, follow to verification 2.
Test of the reactor.	Verification 2- Exchange the reactor for another to detect possible functional problem with the equipment.
If problem 1 remains, even after the verifications of the reactor and detector, analyze the lines of the installed system, following the verifications 3 through 8.	Verification 3- Analyze if the direction of each turn of the steel wire in each capacitor is pointing in the direction of the clock pointers. If it is in the opposite direction of the clock pointers, there will be an inverted circuit, compromising the system. It is common to occur after a jumper, or an alteration or the direction of the system, due to changes in the direction to follow to the heaps, towers of water boxes, in roofs of various "waters." Check the image under the topic: "Flat Wire Installation." Verification 4- Observe if there is any damage on the steel wire. If so, go back in turning on the wires through the aid of springs/rings. Verification 5- If the steel wire touches the surface of the keyboard, or on branches... relocate or stretch the system further, through the largest adjustment of the springs, and/or remove any objects that are touching the system (branches, kites, animals other than the targeted ones, etc.). Verification 6- Count the quality of the capacitors per circuit and verify if the number of capacitors does not surpass the maximum of 100 for each reactor. Verification 7- Measure the distance between capacitors. Follow the average spacing of 6-foot-6 between them.



Pigeon Control System LH-120

Manufacturer:

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