

USER'S MANUAL

GARDEN LISTENER EURORACK v1.0

Dear customer, thank you for the trust you have in us. This is the Garden Listener: in short, a control message generator from biometric signals. You can use probes on plants, your skin, and every living conductive being. Remember that the two probes must lie on the surface of the same being in order to capture its signals. If you want to experiment with two plants/people, place one probe on each of them and make sure they touch each other in order to close the circuit and let the signals reach the probe's input. Plants that not touch each other but that are in the same terrarium works fine too, it all depends on the soil conductivity and moisturization. This kit comes with a pair of reusable snap-on electrodes, they will lose adhesion over time due to pollen or dust, but you can easily find them on Amazon and other online shops. You can also use different type of probes, the web is full of crazy stuffs like probes with 4, 5 and 10 electrodes, alligator clips etc. So, keep experimenting and have fun!

PLEASE (NOT REMEMBER INCLUDED) THAT IS A REQUIRED MIDI-TRS FOR THE TYPE A MIDI ADAPTER OUTPUT.

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1. SAFETY INSTRUCTIONS



This symbol, whenever it appears, alerts you to the presence of uninsulated dangerous voltage that may occur if you not carefully follow the described procedure.



This symbol, whenever it appears, alerts you to important operating and maintenance instructions in the accompanying literature.

1.1 DETAILED SAFETY INSTRUCTIONS

All the safety and operation instructions should be read before the device is operated. These safety and operations instructions should be retained for future reference.



INSTALLATION

Always turn your Eurorack case off and unplug the power cord before plugging or unplugging any Eurorack bus board connection cable. Do not touch any electrical terminals when attaching any Eurorack bus board cable. The Clatters Garden Listener Eurorack v.1.0. is an electronic music module requiring 24mA of +12VDC and 20mA of -12VDC regulated voltages and a properly formatted distribution receptacle to operate. It must be properly installed into a Eurorack format modular synthesizer system case. Module's negative voltage supply is clearly indicated by a white line reporting the wording "-12V" on the back of the device, please refer to your case manufacturers' specifications for the location of the negative supply of your eurorack case/power board.



CONSTRUCTION DETAILS

This device has been manufactured according to the Doepfer A-100 Construction Details. It's an 8HP eurorack module with the following dimensions: 128.5mm x 40.3mm x 22.6mm. The unit is composed by two PCBs made out of LeadFree HASL-RoHS FR-4 TG155 and a front panel of ENIG-RoHS FR4-Standard Tg 130-140C with a thickness of 1.6mm. All PCBs, front panels, electronic components and solder used to build this module are RoHS compliant.

WATER AND MOISTURE

The device should not be used near water (e.g. near bathtub, washbowl, kitchen sink, laundry tub, wet basements etc.).

POWER SOURCE

This device should only be connected to a eurorack case/eurorack power board as a power supply. It has been manufactured to only be powered by systems as described in the "Power Supply and System Bus" section of the Doepfer Technical Details A-100.

1.2 POWER PROTECTION

REVERSE POWER PROTECTION

The Garden Listener has a built-in reverse power polarity protection: in case of reverse/backward bus board cable connection some smoke may occur, please immediately turn your system off and let it cool down; you can then fix your reversed cable. The built-in system works so that nothing inside the circuit gets neither burnt or damaged, however, microchips may get resetted and a new programming action is needed, if so: please contact us!

OPERATING VOLTAGES

The Garden Listener uses the +12V and -12V from the eurorack bus board to work, however a built-in voltage regulator is used to get a stable +5V voltage supply for most of the circuit. This system has been engineered so that the device can be comfortably used with overloaded bus boards and defecting eurorack power systems which can provide a power supply voltage between 7V and 18V: within this values interval, a stable 5V power line is guaranteed. In case of power supplies within 4.3V and 4.8V, the module is still able to properly work, lightshow however may stop in order to save energy for the rest of the module operations.

2. WARRANTY

Clatters offers a one year period of warranty on each built product purchased from our website. During this period all defecting or malfunctioning devices will be repaired or even substituted with a new unit. This service will be applied unless an external damage is proven. Malfunction resulting from wrong power supply voltages, backwards or reversed eurorack bus board cable connection, abuse of the product, removing knobs, changing face plates, or any other causes determined by Clatters to be the fault of the user are not covered by this warranty, and normal service rates will apply. Only Clatters is allowed to repair its own products. Any external attempts of repair/modding will void the warranty. In case of out of warranty damages, devices could also be sent for servicing. In this case shipping costs must be covered by the owner. Requests must be sent by email at the address: clattersmachines@gmail.com with the object "Repair info".

DO NOT FORGET:

- THE PURCHASE INVOICE HAS ALWAYS TO BE DEMONSTRATED AND THEN INCLUDED INSIDE THE SHIPPED BOX.
 - ONLY UNITS SHIPPED WITH THEIR OWN PACKAGING WILL BE SERVICED/REPAIRED.
 - THE PACKAGING PROVIDED IS NOT MEANT TO BE A SHIPPING BOX ITSELF.
- WHEN SHIPPING BACK, PUT EVERYTHING INSIDE A LARGER SHIPPING ENCLOSURE. REMEMBER TO FILL THE GAPS INSIDE WITH SOME SHOCK ABSORBING FOAM/PAPER.
- WE ARE NOT RESPONSIBLE FOR IMPROPER BOXING AND SHIPPING DAMAGES.

PLEASE CHECK [HTTPS://CLATTERSMACHINES.COM/RETURN-POLICY/](https://clattersmachines.com/return-policy/) FOR OUR RETURN POLICY

3. CERTIFICATION



This device has been built respecting UE regulations, according to the following conformity declarations:

- 2014/30/UE, EMC directive;
- 2011/65/UE, RoHS directive;

4. SHIPPING

This device was carefully packed in the factory to guarantee safe transport. Nevertheless, we recommend that you carefully examine the packaging and the unit itself for any signs of physical damage which may have occurred during transport. DO NOT power the device on if any physical damage is visible after unboxing the product, please notify your dealer and the shipping company before contacting us.

5. GETTING STARTED

For a better understanding on how to use your new module, please see the Garden Listener Manual included in the product box!

