

Thunder & lightning sensor

Model: GARNI 094L

User Manual



GARNI 094L

ABOUT THIS USER'S MANUAL

 This symbol represents a warning. To ensure safe use, always adhere to the instructions described in this documentation.

 This symbol is followed by a user's tip.

PRECAUTIONS



Caution

- Keeping and reading the "User manual" is highly recommended. The manufacturer and supplier cannot accept any responsibility for any incorrect readings, export data lost and any consequences that occur should an inaccurate reading take place.
- Images shown in this manual may differ from the actual display.
- The contents of this manual may not be reproduced without the permission of the manufacturer.
- Technical specifications and user manual contents for this product are subject to change without notice.
- This product is not to be used for medical purposes or for public information.
- Do not place anything on top of the product.
- Do not use the appliance near gas appliances, heating devices or fireplaces.
- Only use fresh batteries Do not mix new and old batteries.
- Only use attachments / accessories specified by the manufacturer.

Warning

- Do not cover the ventilation holes with any items such as newspapers, curtains etc.
- Do not tamper with the product's internal components. This invalidates the warranty.
- Placement of this product on certain types of wood may result in damage to its finishing for which manufacturer will not be responsible. Consult the furniture manufacturer's care instructions for information.
- This product is not a toy. Keep out of reach of children.
- When disposing of this product, ensure it is collected separately for special treatment.
- Keep new and used batteries away from children.
- Dispose of used batteries according to the instructions.

Danger

- Do not subject the unit to excessive force, shock, dust, temperature or humidity.
- Do not immerse the product in water. If you spill liquid over it, dry it immediately with a soft, lint-free cloth.
- Do not clean the product with abrasive or corrosive materials.
- Do not spray any flammable materials such as insecticides or fragrance around the appliance.
- Risk of explosion if battery is replaced by an incorrect type.
- Battery cannot be subjected to high or low extreme temperatures, low air pressure at high altitude during use, storage or transportation, if not, it may result in an explosion or the leakage of flammable liquid or gas.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Do not ingest the battery, chemical burn hazard.

INSTALLATION AND SETUP

The thunder and lightning sensor detects lightning bolts and storms within 40 kilometers (25 miles). High or low sensor sensitivity is selectable to meet different requirements.

To synchronize the sensor with console put the batteries into the sensor, console will make a connection automatically. If no data will be received, console will re-search for the signal after one hour or restart the console.

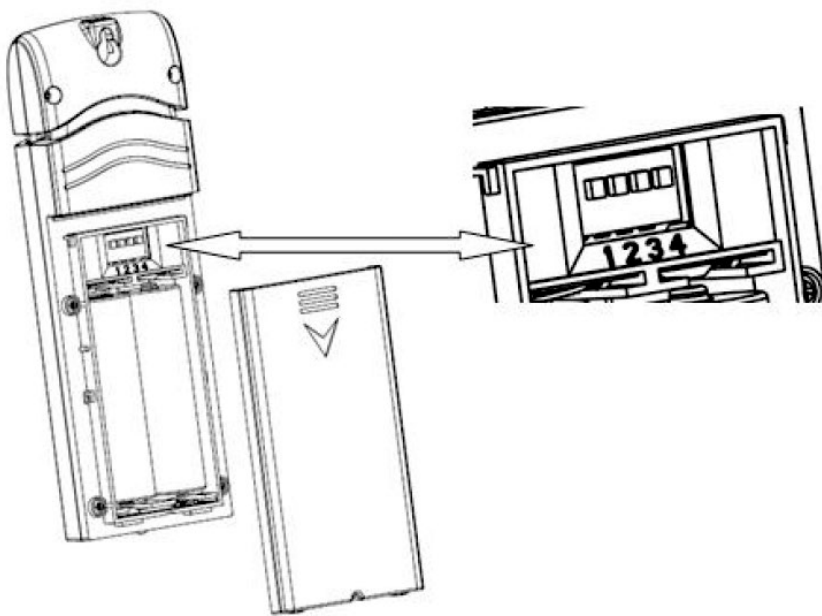


NOTE:

We suggest you to have wireless sensor and console in one location so you can easily test functionality. After testing, place the wireless sensor in the desired location.

Install batteries

1. Remove the battery door on the back of the wireless sensor by sliding down the battery door.
2. Before inserting the batteries, find the DIP switches above the battery compartment and set the following:
 - a. **Indoor / Outdoor** – default setting of 1st DIP switch is for “Outdoor”. No matter if the sensor is placed indoor or outdoor, it is recommended to keep the set to “Outdoor” to avoid system pick up noise and triggering false lightning.
 - b. **Antenna** – default setting of 2nd DIP switch is for long antenna. It is highly recommended to not do any changes.
 - c. **Sensitivity** – default setting of 3rd and 4th DIP switches are for sensitivity between high and mid. If you think the sensor picked up a lot false lightning strikes, then please try with sensitivity Mid or Low. If sensor missed lightning detection, you may try with high sensitivity setting. If set to high sensitivity and still has missed lightning detection, then you may try to set DIP switch 1 to “Indoor” setting to make the system even with higher gain and make the system most sensitive.

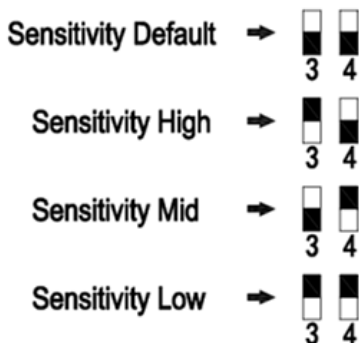
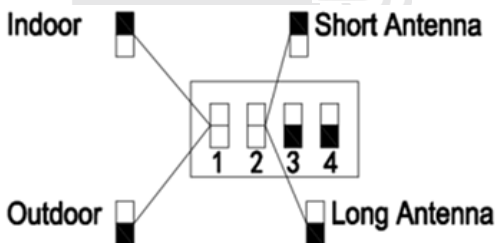




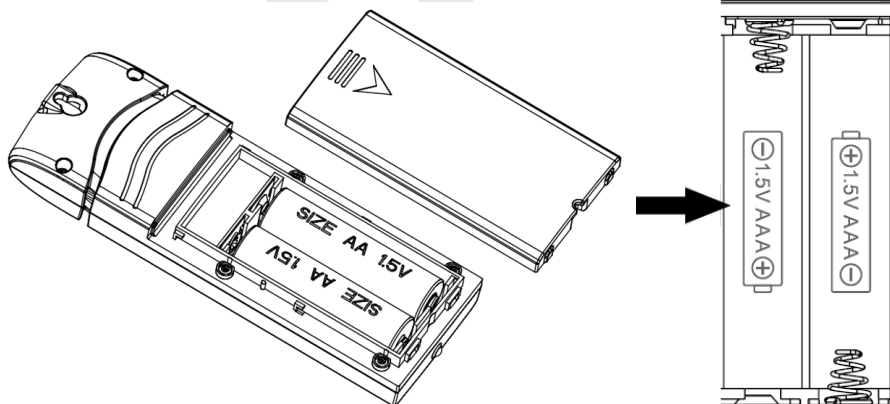
Switch in down position



Switch in up position



3. To avoid permanent damage, please take note of the battery polarity before inserting the batteries. Looking at the sensor from the back side from left to right the left-most (or bottom) battery is to be installed with its + terminal pointing down, and the other battery with its + terminal pointing up.
4. Insert 2 x AA 1.5V Lithium batteries (not included) into the battery compartment according to the polarity mark on the battery compartment. The LED indicator will turn on for four seconds and normally flash once every 79 seconds (the wireless sensor transmission update period).



5. Close the battery door.

Sensor placement

The wireless sensor can be placed both indoor or under porch, balcony.

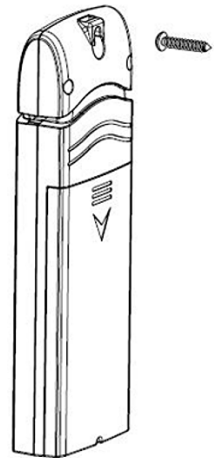
The best mounting location for the wireless sensor is in a location that never receives direct sunlight, not even through windows. Also, in case of placing indoor, do not install it in a location where a nearby radiant heat source (radiator, heaters, etc.).

The wireless sensor is weatherproof, but besides heeding the placement instructions above, you should also attempt to mount the unit under cover (eave or awning or similar) to avoid direct sunlight, rain or snow.

Mounting of wireless sensor

Place a screw on the wall that you wish to hang the sensor on. Hang the sensor onto the screw by the wall mounting holder. You can also place the sensor on a table by itself.

Make sure the sensor is mounted or placed vertically, this will insure optimum reception. Wireless signals are impacted by distance, interference (other weather stations, wireless phones, wireless routers, TVs and computer monitors), and transmission barriers, such as walls. In general, wireless signals will not penetrate solid metal and earth (down a hill, for example).



LED INDICATOR

On the front side of the wireless sensor under the lightning icon a LED indicator is placed.

Flash (each)	Indicates one packet of RF data from a sensor was received or one lightning strike was detected.
Flash (for 2s)	Indicates detection of noise signals, notifying the user that current location has high level noise. You can either set dip switch 3, 4 to mid or low sensitivity level which raised to a higher threshold level for noise filtering, or you can find another location for lower noise level.
Steady on (for 2s)	Indicates detection of interference signals. It means there is lightning like signals around. You should try to find interference sources like motor, switches for all kinds electrical appliances, and place the sensor far away from these interference sources.
Steady off	Indicates no triggering of lighting signal neither noise, nor interference.

SPECIFICATIONS

Dimensions (W x H x D)	42 x 123 x 14 mm
Weight	41.5g (without batteries)
Main power	2 x AA size 1.5V Lithium batteries (not included)
Weather data	Thunder & lightning
Type of used sensors	ams AG
Lightning detection range	0-40 km / 0-25 miles
RF frequency	868 MHz
Max RF power	5 dBm (2.5 mW)
RF transmission range	100 meters
Transmission interval	79s
Operating range	0 ~ 50°C (32 ~ 122°F)

DISPOSAL

Dispose of this product in accordance with waste disposal regulations. Electrical equipment must not be disposed of with mixed waste, but must be disposed of in designated areas, ie in collection yards or collection points.



DECLARATION OF CONFORMITY

Company GARNI technology a.s. declares that the type of radio device - the wireless sensor model GARNI 094L - complies with Directive 2014/53 / EU. The full text of the EU Declaration of Conformity is available on the following website: www.garni-meteo.cz

Instruction translated, edited and processed: 

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