



YeloDeer

PLUG IN·HEAT UP

Roof De-Icing Controller

INSTALLATION MANUAL



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At Your Service



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To Be the **#1 HEATING CABLE BRAND** for Homes

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LIMITED WARRANTY AND LIABILITY



**EACH ROOF HEATING CABLE SYSTEM
REQUIRES A CONTROLLER**

GENERAL INTRODUCTION

This Roof De-Icing Cable Controller has been designed and manufactured for the sole intended use of controlling roof de-icing cables. The sole intended use of a roof de-icing cable is to help prevent ice dams from forming on inclined roofs, in gutters and downspouts. Improper installation, use, operation and/ or maintenance of electrical roof de-icing cables can cause fire, electrical shock and/or allow ice dams to form.

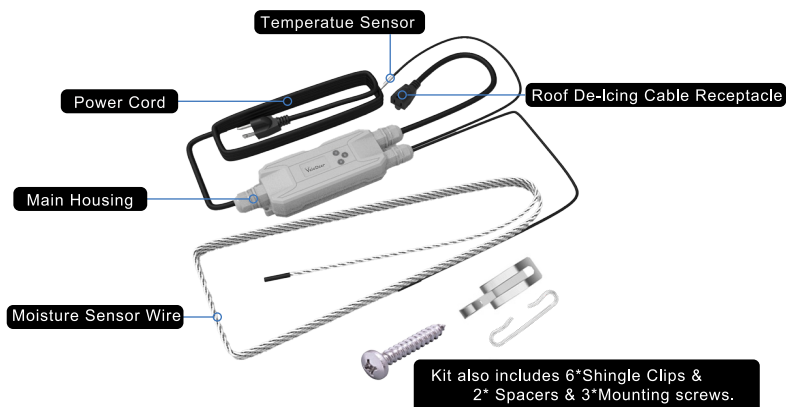


Fig.1

FEATURES

- Automatically Controllable: Activates the Deicing Cables Only when Necessary.
- Manually Controllable: Heating can be turned on manually. (When you think automatic control does not meet your needs)
- APP Controllable: Convenient and quick use of all functions.

SPECIFICATION

- Plug Type: Grounded
- Connector Type: Grounded
- Accessories: Includes 6 Shingle Clips & 2 Spacers & 3 Mounting Screws
- 10ft Moisture Sensing Cable
- 6ft Power Cord
- Usage: Outdoor
- IP Class: IP 65
- Power: MAX.1800W
- Current: MAX. 15 Amps
- Volts: 110V-120V

OPERATION

1. Icons



WiFi Indicator Light

Blinking Light:

- Fast Blinking: In fast pairing mode
- Slow Blinking: In slow pairing mode

Solid Light: Successfully connected to WiFi

No Light: Offline or the pairing process has failed



Heating Indicator Light:

Red Light On: The heat is ON

No Light: The heat is OFF



Manual Heating Indicator Light:

Green Light On: Under manual heating mode (the heat is ON)

No Light: Under automatic heating mode

To enable or disable the manual heating mode, press

- Automatic Heating Mode: The device will automatically activate or deactivate heating based on the detected temperature and humidity levels.
- Manual Heating Mode: The device will continuously heat until this mode is turned off or until the temperature exceeds 8°C/46°F.

If necessary, press to activate manual heating mode. The device will continuously heat until this mode is turned off or until the temperature exceeds 8°C / 46°F.

2. Wifi Connection & Operation

Before connecting, please confirm:

The WiFi is 2.4G version (No sign of 5G).

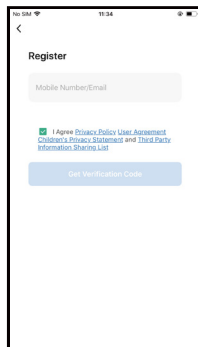
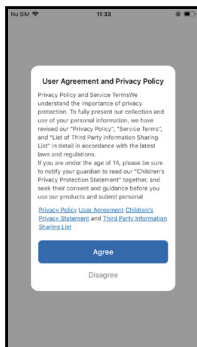
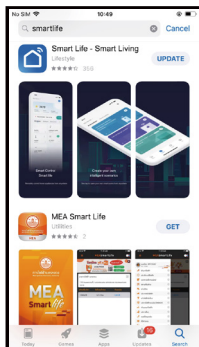
The WiFi signal is good.

The router isn't connected to too many devices.

Turn on Bluetooth on your phone.

1). Download the 'Smart Life' APP

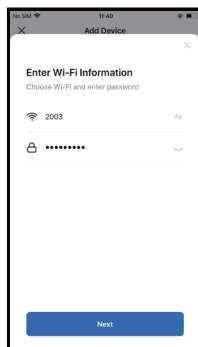
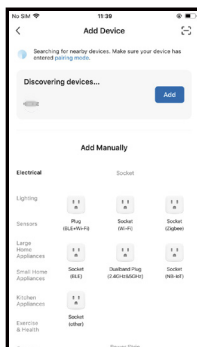
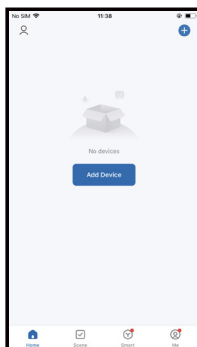
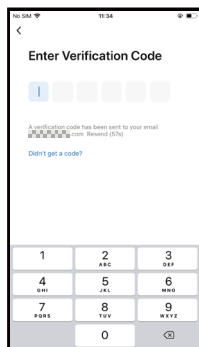
Search 'Smart life' from APP store/Google Play or scan the QR code to download the 'Smart Life' APP.



2). Register or Log in

Read the service agreement and privacy policy , then press ‘Agree’.
Then register or log in the app.
How to register a new account: Press ‘Register’.

Enter the email address → Enter verification code → Set password



3). Confirm the WiFi icon is flashing quickly

Connect the roof deicing cable controller to the power supply, then confirm the WiFi icon is flashing quickly. If the WiFi icon is not flashing quickly, press  and hold to change the WiFi icon status.

4). Connect the roof deicing cable controller to APP

Note: Confirm the phone has Bluetooth enabled and the app has permission to use it!

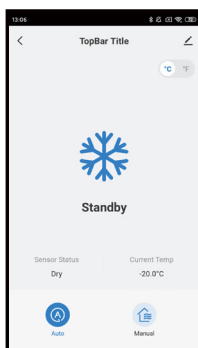
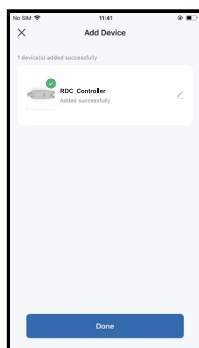
Press 'add device' or '+' on the top right.

When the APP discovers the controller, the roof deicing controller will disappear on the interface. Press 'Add'.

5). Check and Set Parameters

In this interface, users can:

- Switch °F/°C
- Check the current temperature, e.g. -4°F/-20°C
- Check sensor wire status (Dry/Watery)
- Check heating status,  -Heating ON  Heating OFF
- Choose between automatic and manual heating mode.



Note:

Please replace the controller with a new one if the interface shows: "Temperature sensor fault! Controller failure. Please replace the controller in time!"

3. Operation Instructions

The roof control is designed to energize the roof de-icing cables ONLY when roof snow/ice melting conditions exist AND there is a risk of this melt water refreezing at the roof edge to form an ice dam. This ensures that ice dams will not form and that energy consumption is minimized.

The RDC (Roof De-icing Controller) temperature sensor senses the ambient temperature. The sensor wire senses the presence of water. If the temperature is below about 3°C (38°F) AND the sensor is laying in (or on) water, then the RDC will apply power to the roof cable.

Note that snow or ice surrounding the sensor wire WILL NOT result in activation of the RDC to energize the cables. Simply having snow will not cause any effect, as snow alone does not harm the eaves. Meanwhile, we have set the system to heat for 15 minutes every 3 hours when the temperature is below 3°C and the wire is not submerged in water, to ensure everything is functioning properly.

At the beginning of the heating season and monthly during operation, inspect the RDC control and its connection to the electric power source.

Discontinue use and remove any unit that has been cut, damaged, or has deteriorated for any reason.

Other conditions to look for are chewing by animals or any physical abuse. This RDC does not contain any serviceable parts. Inspect for and remove all leaves and combustible debris from roof, gutters and downspouts.

INSTALLATION INSTRUCTIONS

1. Mount the main housing under the soffit, or equivalent location protected from the weather, using the screws provided. Refer to Fig.2 Ensure that the mounting location is close enough to the receptacle supplying power to the unit to allow the cord on the control to be plugged in. The connection should be located for the best protection from the weather and a drip loop used as appropriate. Drip loops should be used between the control box and both the sensor wire and power connection to the heater wire as appropriate for maximum protection. If desired, this receptacle can be controlled by a switch (with a pilot light) located inside the house. **See Fig.2.**

2. Lay the Splice Connection and sensor wire along the bottom of the gutter within two inches of the roof de-icing cable. Route the sensor wire over at least one gutter support strap or nail in order to sense the full depth of the gutter, then route along one triangular weave of the heating cable on the roof as per diagram. At the peak of the second triangle, attach the sensor wire up the roof, at least 2 feet (60.96 cm) past the heater wire as illustrated. Use the clips provided to secure the sensor wire to the roof. Gently squeeze the coated end of the clip around the sensor wire. **See Fig.3.**



Fig.2

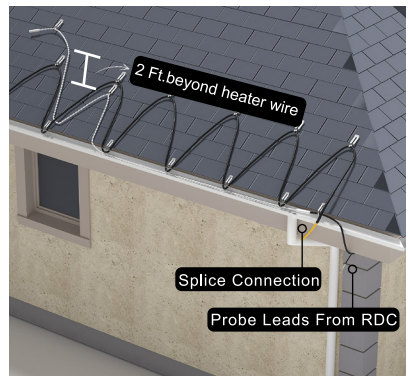


Fig.3

3. Connect the cord from the roof cable to the Controller. Cables up to a maximum of 1800 Watts can be used.
4. Plug the controller into the power outlet. Ensure that this connection remains dry.
5. Your RDC Controller is now ready to control the cable on your roof.
See Fig.4.

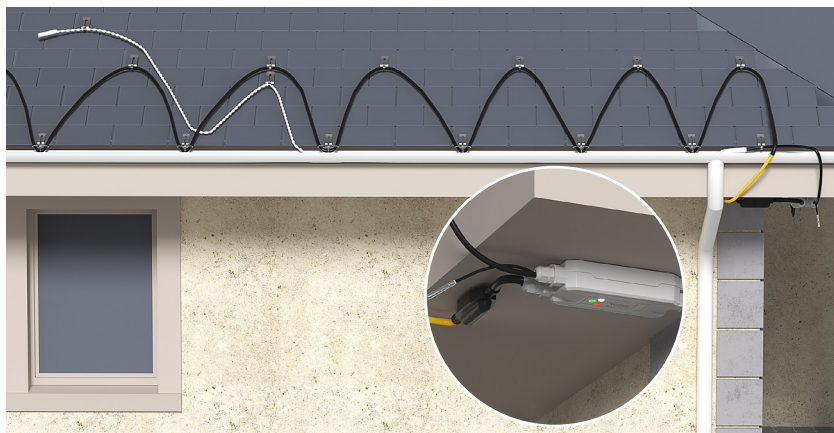


Fig.4

6. For Roof without gutter- Lay the sensor wire along the triangular weave of the heating cable as shown on Fig. 5 and secure the main housing under the eave of the roof as shown on **Fig.5.**

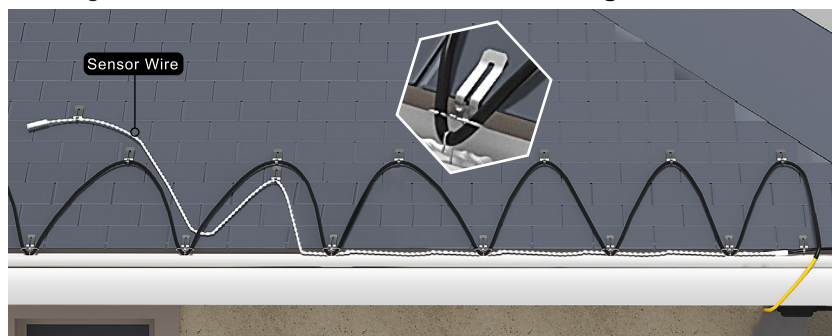


Fig.5

7. The RDC may also be used on metal and membrane roofs. Typically installation of the roof clips on these types of roofs requires an adhesive be used to bond the clip to metal or membrane material. The choice of adhesive is left to the installer. Care must be taken on metal roof installations to ensure the sensor wire is protected from sliding

snow or ice, which could damage the sensor wire and render the RDC inoperable. Prior to installing on a membrane roof ensure the sensor wire will be able to reach the area where melting is occurring, The RDC sensor wire cannot be extended.

NOTES:

1. Sensor wire **MUST** be placed on the surface of the gutter and roof, and it should be positioned along the lowest point of the gutter.
2. Sensor wire should not be placed on top of roof deicing heating cables, nor should they be suspended in mid-air. This ensures the timely detection of melted water to trigger the activation of the heating cable.



WARNING

1.If after carefully reading these instructions you still have questions regarding installation or operation of this product, contact the manufacturer for assistance.

2.It is recommended that the circuit supplying the RDC and heating cable have ground fault protection; this is mandatory by electrical code for some applications in many regions. Consult an electrical inspector to determine the specific ground fault requirements for your application prior to installation. If you are unsure that your circuit has ground fault protection, consult an electrician. If a ground fault device trips and cannot be reset, then a fault in the RDC or in the roof de-icing cable exists. Do not attempt to bypass the ground fault device. Bypassing the ground fault device may result in the risk of fire or electrical shock.

3.All roof de-icing cables must be installed in compliance with the latest editions of: the National Electric Code; Canadian Electrical Code; State or Provincial Codes; and Local Codes.

4.These instructions must be saved and made available to owners or users of this product and/or transferred to future owners.

5.Any roof de-icing cable that is to be connected to the RDC must be installed according to the manufacturer's instructions.

6.Do not connect more than one roof cable to the RDC. The maximum cable size that can be connected to the RDC is 1800 Watts. Risk of fire, electric shock or the formation of ice dams can result from a larger cable or from multiple cables being connected.

LIMITED WARRANTY AND LIABILITY

The manufacturer warrants that if there are any defects in material or workmanship in this product during the first twelve (12) months after the date of its purchase, we will replace the product with an equivalent model, not including any labor or other installation costs.

Our obligation to replace the product as described above is conditioned upon (a) the installation of the product conforms to the specifications set forth in our installation instructions and (b) the product not having been damaged by unrelated mechanical or electrical activities.

Product replacement as described above shall be your sole and exclusive remedy for a breach of this warranty. This limited warranty does not cover any service costs relating to repair or replacement.

We shall not be liable for any incidental, special or consequential damages as a result of any breach of this warranty or otherwise, whether or not caused by negligence. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

The warranty above is exclusive and manufacturer makes no other warranties with respect to description or quality of the product. No affirmation of fact or promise made by us, by words or action, shall constitute a warranty. If any model or sample was shown to you, the model or sample was used merely to illustrate the general type and quality of the goods and not to represent that the goods would necessarily be of that type or nature.



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