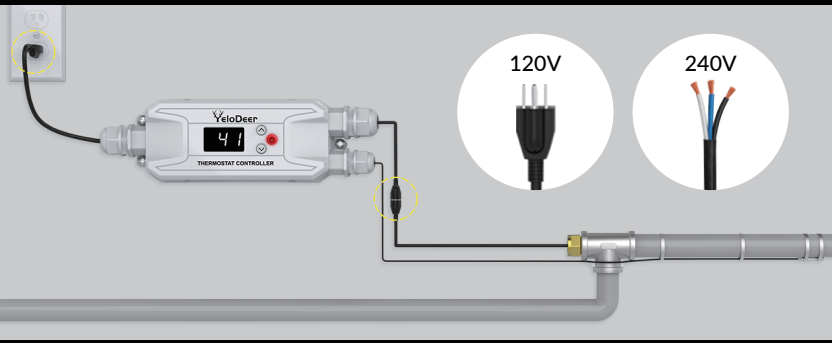
YeloDeer

PLUG IN·HEAT UP

Thermostat Controller

Installation & Operation Instructions

120V Plug-In / 240V Hardwired



SCAN FOR SUPPORT

At Your Service

Web: www.yelodeer.com

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

01 PRODUCT OVERVIEW

This Thermostat Controller is designed to control compatible electric heating cables and other resistive heating devices within its rated voltage, current, and power limits.

A remote sensor bulb monitors pipe or surface temperature. The controller automatically turns the connected heating device on and off according to the selected temperature setting.

For pipe freeze protection, use it with compatible in-pipe or on-pipe heating cable. Other compatible resistive heating devices must remain within the controller's electrical rating and be installed according to their own instructions.

Set one target temperature. The controller automatically applies a preset differential of approx. ±4°F / ±2°C. Separate ON and OFF temperature settings are not required.

Example: set 41°F (5°C).
Heating turns ON below 37°F and OFF above 45°F.

Two product versions

- **120V Plug-In**
  Grounded plug and plug-in output receptacle.
- **208-240V Hardwired**
  Hardwired power input and load output.

Identify your version and follow only its instructions and diagrams. The controller, heating device and power supply voltages must match. The controller does not convert voltage.

02 IMPORTANT SAFETY INFORMATION

WARNING: Risk of Fire and Electric Shock

Read and follow these instructions. Failure to do so may cause fire, electric shock, serious injury or property damage.

- Disconnect power before installation, wiring, inspection, cleaning or maintenance.
- Follow the National Electrical Code, Canadian Electrical Code, and applicable state, provincial and local codes.
- Do not use a damaged controller, power cord, power leads, sensor wire or heating cable.
- Use matching voltages. Do not exceed the controller's current or wattage rating.
- Observe self-regulating cable circuit-length and cold-start limits.
- Install in a protected ordinary location, away from direct weather, standing water and physical damage. Keep electrical connections out of water.
- Do not use where gasoline, paint, flammable liquids or vapors are used or stored.
- Protect the sensor wire from damage; do not cut, kink, compress, splice or modify it. Do not open the housing; no user-serviceable parts are inside.

Grounding and ground-fault protection

Ground equipment as required by code. The controller does not replace required branch-circuit overcurrent or ground-fault protection. Provide GFCI, GFPE or other protection required by codes and the heating-device instructions. Have a qualified electrician determine the required protection when necessary.

03 SPECIFICATIONS

Item	120V Plug-In	208-240V Hardwired
Rated voltage	110V-120V AC	208V-240V AC
Maximum current	15 Amps	
Maximum power	1800W max. @ 120V AC	3120W @ 208V / 3600W @ 240V max.
Power input connection	Grounded plug	Hardwired input leads
Heating output connection	Plug-in receptacle	Hardwired output leads
Power lead length	3 ft / 0.9 m power cord	6 ft / 1.8 m input leads
Sensor wire length	15 ft / 4.6 m	
Sensor range	-4°F to 122°F / -20°C to 50°C	
Temperature setting range	36°F to 86°F / 2°C to 30°C	
Default setting	41°F / 5°C	
Preset switching differential	Approx. ±4°F / ±2°C	
Included accessories	Mounting screws	Mounting screws, wire connectors

Do not exceed 15A. Size and protect the circuit according to electrical codes and heating-device instructions. For self-regulating cable, follow the manufacturer's Maximum Circuit Length and cold-start limits at the actual voltage and lowest expected start-up temperature. Do not size by nominal W/ft alone.

04 INDICATOR LIGHTS & BUTTONS

INDICATOR	LIT	UNLIT
POWER Green	Controller ON	Controller OFF / no power
HEATING Red	Heating ON	Heating OFF

Power	Press to turn the controller ON or OFF.
Set temperature	UP / DOWN to adjust; press Power to confirm.
Switch °F / °C	Hold DOWN for 3 seconds; press Power to confirm.

05 BEFORE INSTALLATION

Confirm matching voltages, a load within 15A, and proper circuit sizing, grounding and protection. Follow heating-device instructions, including cable circuit-length and cold-start limits. Plan a protected location and a safe sensor-wire route.

06 INSTALLATION INSTRUCTIONS

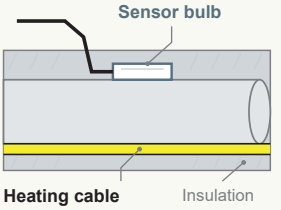
1 Install the heating device

Follow the heating-device instructions. Confirm the same rated voltage as the controller and a load that does not exceed the controller's electrical rating.

2 Mount the controller

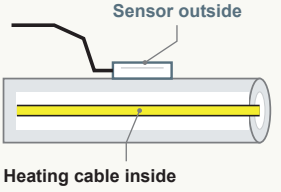
Use the supplied screws if needed. Allow safe power access and sensor-wire reach without tension. Protect from direct weather, standing water and physical damage.

3 Sensor Placement



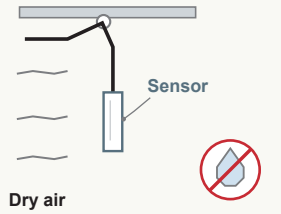
ON-PIPE HEATING CABLE

Place the bulb against the pipe, beneath the insulation and away from the heating cable. Follow the cable's insulation instructions; route the bulb through an opening in the insulation.



IN-PIPE HEATING CABLE

Keep the bulb outside the pipe. Secure it to the pipe surface with aluminum foil tape. The heating cable runs inside the pipe.



AMBIENT AIR SENSING

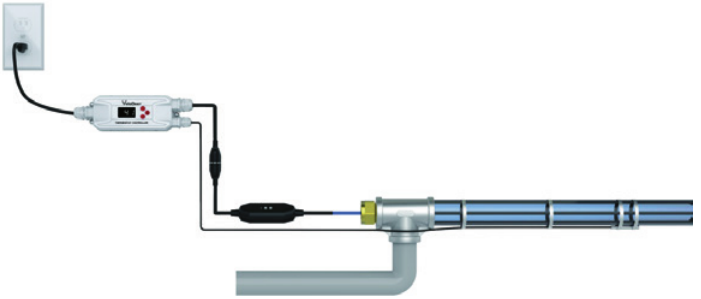
For ambient-air control, suspend or secure the bulb in a representative air location. It senses air temperature. Keep it away from the heating cable and out of water.

Protect the bulb and wire from sharp edges, clamps, straps, pipe movement and insulation pressure. Do not cut, kink, compress, splice or modify the sensor wire.

4 Electrical Connection

120V Plug-In Version

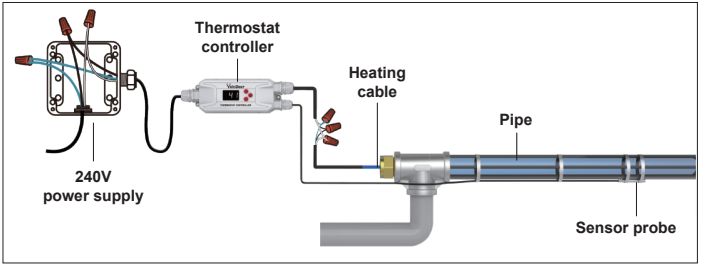
1. Connect the heating device to the controller output receptacle.
2. Connect the controller to a grounded 110V-120V AC receptacle on a properly sized and protected circuit.
3. Use compatible 120V devices only. Do not exceed 15A / 1800W at 120V AC.
4. Do not remove, modify or bypass the grounding pin. Do not use if it is missing, damaged, modified or does not fit.



208-240V Hardwired Version

This version has no power plug or output receptacle. Installation by a qualified electrician only.

1. Disconnect power before installation. Install all wiring and terminations in approved junction boxes suitable for the location.
2. Connect the heating-device leads to the controller load/output leads using approved wire connectors.
3. Connect the controller power/input leads to the matching 208-240V AC supply.
4. Connect equipment grounding conductors as required by code. The power circuit uses L1, L2 and Equipment Ground; no neutral is used.
5. Verify all connections are correct, secure, insulated and fully enclosed before restoring power.
6. Use compatible 208-240V heating devices only. Do not exceed 15A: 3120W at 208V or 3600W at 240V AC.



After installation and power connection, follow Section 7 to turn on the controller and set the temperature.

07 OPERATION

Turn on the controller. Set one target temperature with UP / DOWN, then press Power to confirm. The setting range is 36°F to 86°F / 2°C to 30°C; the default is 41°F / 5°C.

Preset differential: approx. ±4°F / ±2°C. Separate ON and OFF temperature settings are not required.

HEATING ON BELOW	SET ONE TARGET	HEATING OFF ABOVE
37°F	**41°F**	**45°F**
Approx. 3°C	5°C	Approx. 7°C

With one 41°F setting, the controller uses both switching points shown above. Between them, it keeps its previous heating state.

08 INSPECTION AND MAINTENANCE

At the start of each heating season and periodically during use, inspect the controller, power cord or leads, sensor wire, heating cable or device, power connections and pipe insulation.

Check for damage, cuts, loose connections, deterioration, animal chewing, and moisture or water near electrical connections.

Discontinue use if any part is damaged, cut, loose, deteriorated, or exposed to water near electrical connections. No user-serviceable parts inside; do not open the housing.

09 TROUBLESHOOTING

POSSIBLE CAUSE / RECOMMENDED ACTION
Controller does not power on
No power. Check receptacle, breaker and supply circuit.
Check wiring (208-240V: qualified electrician only).
Heating does not turn on
ON threshold not reached. Check setting (Section 7).
Incorrect cable connection. Check the connection.
Sensor or wire damaged. Stop use; replace controller.
Heating stays on longer than expected
Sensor misplaced. Secure it against the pipe.
Pipe or sensor still cold. Wait for the OFF threshold.
Pipe freezes or does not warm properly
Sensor misplaced. Check and secure the sensor bulb.
Installation issue. Follow heating cable instructions.
Display shows incorrect temperature
Heat or air affects the sensor. Reposition and secure it.

If the issue cannot be resolved, discontinue use and contact YeloDeer customer support.

10 LIMITED WARRANTY

The manufacturer warrants that if there are defects in material or workmanship in this product during the first twelve months from the date of purchase, the manufacturer will replace the product with an equivalent product.

This warranty applies only to products used and installed according to the instructions provided by the manufacturer.

This warranty does not cover:

- Damage caused by improper installation
- Damage caused by misuse or abuse
- Damage caused by unauthorized modification
- Damage caused by cutting, splicing, or altering the product
- Damage caused by failure to follow this manual
- Labor costs
- Service costs
- Incidental or consequential damages

Product replacement as described above shall be the sole and exclusive remedy for breach of this warranty.

The manufacturer shall not be liable for incidental, special, or consequential damages resulting from any breach of this warranty or otherwise.

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