



## Thermostats and Controls

## Interior Radiant Heat Controls

The Warmzone electronic thermostats are specifically designed to control electric radiant floor heating systems for maximum comfort and minimum power consumption. Developed for the modern home, the programmable thermostat features a large back-lit display and simple user interface. The system temperature is controlled by an external or built-in floor sensor.

Each thermostat includes an integrated Ground Fault Circuit Interrupter (GFCI, Class A). The thermostat is an electronic on/off thermostat for controlling the temperature using a sensor placed externally. The heat output is switched on and off with a difference of only 0.7°F (0.4°C).

### Adjustable Temperature Offset

The set point can be adjusted to match the actual floor temperature. This ensures a 100 percent accurate measurement and control of your underfloor heating system.

The thermostat can be configured for control of the floor temperature and regulator without a sensor. The advanced thermostat is compatible with existing floor sensors by means of a temperature setting, making it the best thermostat for renovation purposes.

### Temperature Temperature Scale and Limitation

The floor temperature scale can be adjusted within the temperature range of +41°+104°F. The thermostat also features a maximum temperature function to protect wood floors and minimum temperature functions for comfort. Designed for ease of use and superior performance, the thermostat and GFCI are dual voltage models suitable for 120/240V, 50/60 Hz power supplies.

### General Thermostat Specifications

Functions	On/Off control, easy-to-read digital display, 7-day programmable
Supply voltage	120/240 V ±15%, 50/60 Hz
Load	15A maximum (resistive load)
Power	1.800 W at 120 VAC / 3.600 W at 240 VAC
Temperature control range	40 to 104°F (5 to 40°C)
Ambient temperature range	32 to 104°F (0 to 40°C)
Floor temperature sensor	2-wire, 10-foot lead wire
Floor sensor type	NTC (12 KΩ) 10 ft (3 meters)
GFCI	Class A (5 mA trip level)
On/Off differential	0.7°F (0.4°C)
Regulation principle	PWM / PI
Housing	NEMA 2 (IP21)
Dimensions (H/W/D)	4.8, 3.0, 1.0 inch (123, 75, 25mm)

## FLOOR HEATING CONTROLS AND ACCESSORIES ORDERING INFORMATION

### Floor Heating Thermostats

Item Code	Description
UDG-499	Programmable thermostat with air sensor (and floor temperature limiter)
UCG-4991	Non-programmable thermostat with floor sensor
USG-4000	Power module with GFCI

### Floor Heating Accessories

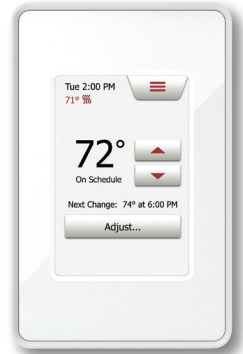
Item Code	Description
CT-Splice	Repair kit floor (includes crimp connectors, repair wire, heat shrink tubes)
LM-Splice	Repair kit foil (includes crimp connectors, repair wire, heat shrink tubes)
CT-Buzzer	Little buzzer - continuity alarm
81005523	Cable strapping, 25 feet (7.6m)
ETF-144/99	Replacement floor sensor for thermostat

# Warmzone Floor Heating Thermostats

## CTW Floor Sensing Programmable Thermostat

An “all-in-one” programmable thermostat for electric underfloor heating control where optimal comfort temperature and minimum energy consumption is required. Includes floor sensor with 10-foot (3-meter) cable.

- Simple user interface and thoughtful installation design
- Pre-programmed for quick setup
- Monitored energy consumption
- Easy to use / Simple operation
- Multi voltage: 120-240 VAC (includes 208 VAC)
- Output relay: 15A
- Large back-lit display for easy reading
- Class A GFCI for wet room installation



## LED WiFi Programmable Thermostat (PL-LED-99W)

The programmable thermostat with dual sensors is an “all-in-one” programmable thermostat for electric underfloor heating control where optimal comfort temperature and minimum energy consumption is required.

- Bluetooth®, WiFi and Cloud connected
- Voice control compatible with Amazon Alexa and Google Assistant-enabled devices
- Easy and intuitive setup by a wizard
- Capacitive touch allows direct control of thermostat
- Simple on-thermostat control. Adjust set-point, change operation mode, turn on/off
- Display readouts of temperature, set point, time, heating status, errors, WiFi status
- Regionalization (language, unit, time, and date)
- Allows up to 10 different schedules and overrides (manual mode, hold for X hours, vacation mode, frost protection, and eco mode)
- Fast, secure connection and operation, using TLS 1.3 encrypted data
- LED display. Light intensity is increased during use, and dimmed or turned off when not being used.
- Adaptive function, open window function, application type, sensor adaption, user lock, and calibration
- GFCI protected (with test button)



## CTW Power Module Slave Relay

For large floor heating applications, the Power Module Slave Relay can be extended with additional Power Relay Modules. The PRO Slave Relay module features a built-in Class A GFCI and increases output by 15 amps per module. Output can thus be increased by 15A per module.

- Easy to use
- Screw terminals for safe and easy installation
- For use only with the CT Programmable Thermostat
- Multi voltage: 120-240 VAC (includes 208 VAC)
- Output relay: 15A
- Class A GFCI: suitable for wet room installation



## CTW Digital/Non-programmable Thermostat with Floor Sensor

Optimal comfort in controlling electrical underfloor heating. Built on efficiency, intuitive operation and with a stylish design. Includes floor sensor with 10-foot (3-meter) cable.

- Simple user interface and thoughtful installation design / Easy to use
- Screw terminals for safe and easy installation
- Multi voltage: 120-240 VAC (includes 208 VAC)
- Output relay: 15A
- Large back-lit display for easy reading
- Class A GFCI: suitable for wet room installation

