

## Uponor Heat-only Thermostat with Touchscreen

The Uponor Heat-only Thermostat with Touchscreen (A3100101) is designed for precise temperature control of hydronic radiant heating applications.

The thermostat uses fully automatic differential and pulse width modulation (PWM) control functions to ensure each radiant zone is comfortable and energy efficient.

### Key features:

- Operative temperature sensing
- Two-wire power sharing (easier installation)
- User-friendly touchscreen
- Color-enhanced display
- Slim, aesthetic design

### Product offering

Part no.	Part description
A3100101	Heat-only Thermostat with Touchscreen
A9010599	Floor Sensor, replacement part

It can operate a radiant heating system based on the air sensor measuring operative temperature, a floor sensor, or a combination of both to provide the optimal level of comfort and control.

The thermostat also allows the use of a floor sensor (A9010599) to measure floor temperature for enhanced comfort and to protect the surface from overheating.





## Frequently asked questions

### How is this thermostat different from Uponor's current control offering?

With the A3100101 Uponor Heat-only Thermostat with Touchscreen, we took the best features of the A3030101 Uponor Heat-only Thermostat and made it better. We took the control and reliability you have come to trust with the Heat-only Thermostat and transferred it to a sleek, new version that includes a simple, easy-to-use touchscreen. The slim design fits today's installation aesthetic requirements, and it also allows connection of a floor sensor to further enhance the offering.

### How does the Heat-only Thermostat with Touchscreen affect Uponor's existing thermostat offering?

The Heat-only Thermostat with Touchscreen (A3100101) will replace the Heat-only Thermostat (A3030101). Additionally, by adding the Floor Sensor (A9010599), the Heat-only Thermostat with Touchscreen is a simpler, more cost-effective solution for users familiar with the SetPoint 501s, Single-stage SetPoint Controller with Floor Sensor (A3041501).

### What are the different modes of the thermostat?

The Uponor Heat-only Thermostat with Touchscreen can operate a radiant heating system based on the air sensor measuring the operative temperature, a floor sensor, or a combination of both to provide the optimal level of comfort and control.

- **Air temperature only:** When a floor sensor is not connected, the thermostat will maintain the room's air temperature based on the desired temperature setting.
- **Air and floor:** If using both sensors, the thermostat will maintain the room air temperature along with maintaining a minimum floor temperature. Early in the heating season when the room is not experiencing high loads, it may be desirable to have a warmer floor. The floor setpoint can be adjusted to maintain the floor temperature. When the outdoor temperature drops and the room load increases, the air sensor will take over. This maintains the air temperature and provides a warm floor.
- **Floor sensor only:** The air sensor can be disabled or turned off should the application require it (e.g., bathrooms). In this instance, the thermostat will only maintain the floor temperature.

### What is operative temperature sensing?

Operative temperature is what people experience thermally in a space by combining the effects of air temperature and thermal radiation. This provides superior control of a radiant heating system while maximizing comfort and efficiency. The design of the thermostat closely senses room conditions in the same manner as the human body.

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