

Uponor

RADIANT HEATING
SYSTEMS

**WT1 AND WT2
THERMOSTATS**

PRODUCT BULLETIN



Affected Product

Thermostats WT1 (A3030101) and WT2 (A3030102)
(Phase 3 with gray buttons)

Reason for Issue

Application Update

Symptom

Thermostat displays temperatures higher than actual room temperature when there is no heat demand.

Problem

When the WT1 or WT2 thermostats connect to a transformer supplying power greater than 26.4 volts, a diode in the thermostat heats up. This affects the air sensor inside the thermostat and results in a higher temperature reading than the ambient room temperature.

The display reads closer to room (ambient) temperature when the thermostat is under a heat demand (e.g., opening actuators, etc.). Due to the load, the supply voltage drops below the 26.4 volt limit, and the diode will no longer generate heat.

Issue

The affected component is a surge protector for the thermostat. The diode value selected supports the operating range of 24VAC +/- 10%. When a thermostat receives a secondary voltage above the upper limit, the diode is in a constant state of overload and will heat up.

Affected Components

This condition affects all Phase 3 (gray button) WT1 and WT2 thermostats.

Correction

Replace the transformer with one supplying a maximum of 26.4 volts.

Note: Most transformers are within the industry standard of 24 volts +/- 10%. Check with your Uponor sales representative or distributor for the recommended model.

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