



uponor

RADIANT HEATING SYSTEMS

**UPONOR CLIMATE CONTROL™
NETWORK SYSTEM SUPPLY
WATER TEMPERATURE
CONTROL**

INSTRUCTION SHEET

Supply Water Temperature Control

The Supply Water Temperature Control (A9013000) controls all the mixed water temperature equipment in any hydronic heating system.

The Supply Water Temperature Control can control up to five mixed water channels for radiant heating, baseboard or snow melting.

The system can use injection pumps or Belimo Three-way Mixing Valves (or a combination of both) as mixing devices for any of the water channels.

Additionally, ports or connections for four snow-melt channels are included on the Supply Water Temperature Control.

Getting Started

Check the contents of this package. If any parts are missing or damaged, please contact your Uponor sales representative or distributor for assistance.

The package includes:

- Supply Water Temperature Control (A9013000)
- Interconnect Cable (A9060002)
- Four #6-32 x 1/4" machine screws

Tools Required for Installation

- RJ45 crimper and connectors
- Cable tester

Installation

Mounting the Unit

Mount the Supply Water Temperature Control in the third position in the Main Control Cabinet (A9010001) using four #6-32 x 1/4" machine screws (included).

Note: When a control cabinet is not used, use any appropriate fasteners or screws for mounting.



Caution: Before performing any wiring, disconnect the electrical power to the system to prevent electrical shock and damage to the device.

Note: Ensure all wiring complies with local electrical codes.

Interconnect Cable

The Interconnect Cable connects the network and power for the Supply Water Temperature Control to the other main cabinet controls.

1. Attach one end of the cable into the top connector on the left side of the Supply Water Temperature Control.

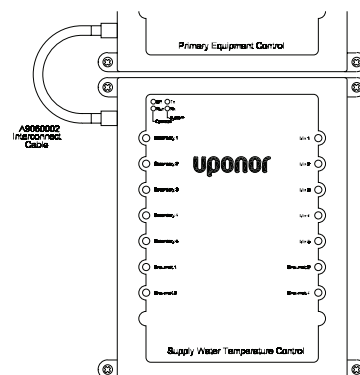


Figure 1: Connecting to the Primary Equipment Control

2. Attach the other end of the cable into the bottom connector on the left side of the Primary Equipment Control (A9012000).

Output Wiring

Use RJ45-terminated Cat5e patch cables to wire to other supported devices. Standard Ethernet cables can be used, or you can build cables of the correct length on site.

Refer to Appendix D in the Uponor Climate Control Network System Manual for more information about making Cat5e patch cables.

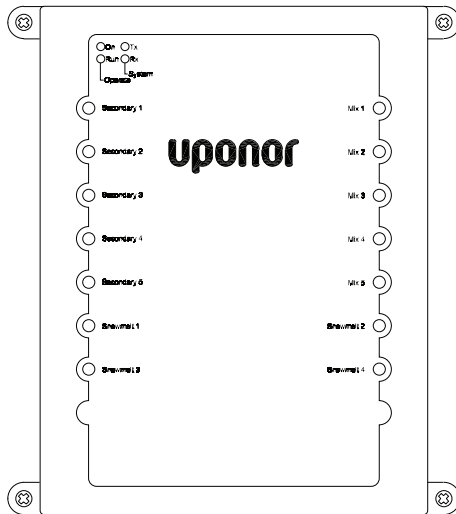


Figure 2: Wiring Schematic

Configuration

Configure any mixing operation and snow melting function or operation using the Uponor Configuration Tool software (A9090000).

External Supported Devices: Ports

Devices	Ports
Pump Relay, On/Off (A9013030)	Secondary 1 - 5
Pump Relay, On/Off (A9013030)	Mix 1 - 5
Modulating Valve Control, 0-10VDC (A9063020)	Mix 1 - 5
Snow Melt Control (A9013051)	Snow Melt 1 - 4

Table 1: Devices

Indicators and Configuration Specifications

Indicator	Definition
On	Illumines when the Supply Water Temperature Control has power
Run	Flashes intermittently to signal the control is processing information Note: The flash speed and duration are irregular and at times may appear on solid.
Green TX and Red RX	Flash rapidly when the control transmits or receives information Note: For proper network communication, both red and green lights should flash intermittently.
Output Off	Signals that the Uponor Climate Control Network System is not activating the device
Output On	Signals that the system is activating the device and properly connected
Output Flashing	Signals that the system is trying to activate the device, but the device is not physically connected to the system or is not functioning properly

Table 2: Indicators

Specifications

Storage Temperature	14 to 160°F (-10 to 70°C)
Operating Temperature	32 to 105°F (0 to 40°C)
% Relative Humidity	10 to 90% non-condensing
Voltage	24VAC +/- 10%, 50-60Hz 35 VA under full load
Output	0-10VDC 20 mA maximum
Input	10K NTC resistive

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