



uponor

RADIANT HEATING SYSTEMS

**UPONOR CLIMATE CONTROL™
NETWORK SYSTEM ROUTER
MAIN CONTROL**

INSTRUCTION SHEET

Router Main Control

The Router Main Control (A9011000) connects zoning, air functionality, ventilation, zone valve and dampers to the Climate Control™ Network System. Additionally, this control provides ports for setup using a laptop. You can also connect to a local network for internet access if services are available.

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:

- Router Main Control (A9011000)
- Router Power Cable (A9060001)
- Four #6-32 x ¼" machine screws

Tools Required for Installation

- RJ45 crimper and connectors
- Cable tester
- Butt connectors and crimper or wire nuts

Installation

Mounting the Unit

Mount the router in the first position in the Main Control Cabinet (A9010003), using the four #6-32 x ¼" 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.

Power Cable

The power cable supplies the main controls (e.g., Supply Water Temperature Control, Primary Equipment Control, Zone Pump Control) with 24VAC power.

1. Attach one end of the cable into the top connector on the left side of the router.

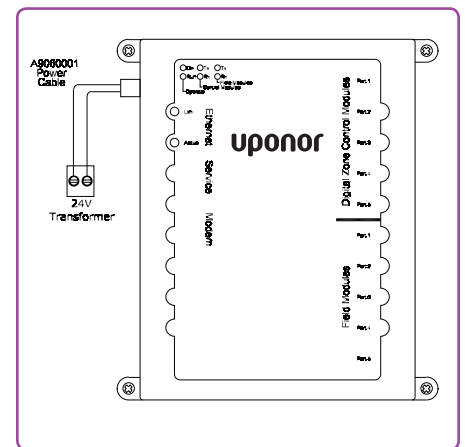


Figure 1: Connecting the Router Main Control

2. Attach the other end of the cable to a suitable 24VAC power source. (Uponor recommends a 50 VA transformer.)

Network 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.

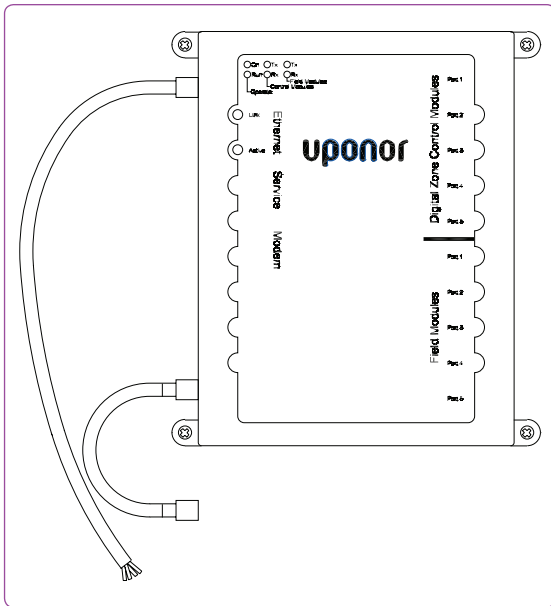


Figure 2: Wiring Schematic

Configuration

Configure functionality for any of the external supported devices (listed in **Table 1**) using the Uponor Configuration Tool software (A9090000).

External Supported Devices: Ports

Devices	Ports
Digital Zone Control Module (A9011500)	DZCM 1 - 5
Furnace and A/C Board (A9011100)	Field Module 1 - 5
HRV Control Board (A9011200)	Field Module 1 - 5
Zone Valve/Damper Module (A9011400)	Field Module 1 - 5
General I/O Control Module (A9011600)	Field Module 1 - 5

Table 1: Devices

Uponor, Inc.
5925 148th Street West
Apple Valley, MN 55124 USA
Phone: (800) 321-4739
Fax: (952) 891-2008
www.uponor-usa.com

Indicators and Configuration Specifications

Indicator	Definition
On	Illumines when the Router Main 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 25 VA under full load

Uponor Ltd.
655 Park Street
Regina, SK S4N 5N1 CANADA
Phone: (888) 994-7726
Fax: (800) 638-9517
www.uponor.ca

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