



## X-60 Uponor Base Controller User Manual

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**uponor**

### X-60 Uponor Base Controller



## Product Information

The Uponor Base Controller X-60 and X-80 are heating and cooling control systems designed for residential buildings. These controllers are highly compatible with a wide range of devices, offering flexibility and efficiency in underfloor heating solutions. By utilizing advanced algorithms, the controllers provide a more efficient system compared to manual balancing, resulting in energy savings. They constantly regulate the energy required to maintain optimum comfort in each room.

The Uponor Base Controllers can be connected to 230V thermostats from other manufacturers, giving users a wide range of choices. The X-60 model features auto balance heating with 6 zones and 6 x 2 actuators, while the X-80 model offers autobalance heating with 10 zones and 12 independent actuators. The X-80 model also supports heating and cooling modes and includes a pump and boiler relay, as well as a day/night switch. The X-80 model also has an optional extra, the S-80 condensation set, which is recommended for cooling purposes. This set is designed to detect and avoid condensation.

### Key Facts:

- Wide freedom of thermostat choice
- **Applications:** heating and cooling
- Auto balancing heating

### Your Benefits:

- Energy cost savings
- High comfort
- No manual balancing required
- Easy installation and planning
- Fast wiring with simple correction procedure due to flexible assignment of thermostat and actuator

## Product Usage Instructions

### X-60 Heating Mode

The X-60 Base Controller operates in heating mode and supports auto balance heating with 6 zones and 6 x 2 actuators. It includes a pump relay and a day/night switch. The controller is compatible with standard 230V wiring. To use the X-60 Heating Mode:

1. Connect the X-60 Base Controller to the 230V power supply.
2. Connect the thermostats to the X-60 Base Controller using the provided wiring connections.
3. Connect the actuators to the X-60 Base Controller, ensuring proper wiring connections.
4. Configure the desired settings for each zone using the controller's interface.
5. Activate the auto-balancing feature to optimize energy consumption and comfort.

### X-80 Heating and Cooling Mode

The X-80 Base Controller operates in both heating and cooling modes. It supports auto-balance heating with 10 zones and 12 independent actuators. In addition to the features of the X-60 model, the X-80 model includes a pump and boiler relay, as well as a day/night switch. The X-80 Base Controller is compatible with standard 230V wiring. To use the X-80 Heating and Cooling Mode:

1. Connect the X-80 Base Controller to the 230V power supply.

2. Connect the thermostats to the X-80 Base Controller using the provided wiring connections.
3. Connect the actuators to the X-80 Base Controller, ensuring proper wiring connections.
4. Configure the desired settings for each zone using the controller's interface.
5. Activate the auto-balancing feature to optimize energy consumption and comfort.
6. If cooling is desired, connect the optional S-80 condensation set to the X-80 Base Controller following the provided instructions.

## Specifications

- **Model:** Uponor Base Controller X-60
- **Heating Mode:** Autobalance heating
- **Zones:** 6
- **Actuators:** 6 x 2
- **Pump Relay:** Yes
- **Day/Night Switch:** Yes
- **Wiring:** Standard 230V
- **Model:** Uponor Base Controller X-80
- **Heating and Cooling Modes:** Autobalance heating
- **Zones:** 10
- **Actuators:** 12 independent
- **Pump Relay:** Yes
- **Boiler Relay:** Yes
- **Day/Night Switch:** Yes
- **Wiring:** Standard 230V
- **Optional Extra:** S-80 condensation set for cooling

## Frequently Asked Questions (FAQ)

### • Can I use thermostats from other manufacturers with the Uponor Base Controllers?

Yes, both the X-60 and X-80 Base Controllers are compatible with 230V thermostats from other manufacturers, giving you the freedom to choose the thermostat that suits your preferences.

### • Does the X-80 Base Controller support cooling?

Yes, the X-80 Base Controller supports cooling. To enable cooling functionality, you can connect the optional S-80 condensation set to the controller. This set is designed to detect and avoid condensation.

### • Do I need to manually balance the system with the Uponor Base Controllers?

No, the Uponor Base Controllers feature auto-balancing technology, which eliminates the need for manual balancing. The controllers constantly regulate the energy required to maintain optimum comfort in each room, ensuring a balanced heating and cooling system.

## Auto-balancing technology energy savings and comfort

### Heating and cooling control system with the highest compatibility

Finding a flexible and efficient underfloor heating solution in residential buildings requires technology that is compatible with as many devices as possible, controls processes autonomously and saves costs. The new technology of Uponor Base Controllers X-60 and X-80 utilises advanced algorithms to enable a more efficient

system compared to manual balancing, resulting in energy savings. It constantly regulates the amount of energy required to maintain optimum comfort in each room. At the same time, the controllers provide the highest flexibility and compatibility, as they can be connected to 230V thermostats from other manufacturers, opening up a wide range of choices. When renovating, the high level of compatibility accelerates the entire process and enables a wide choice of different solutions: from cost-effective to the most modern ones. The Auto balancing function adapts to an existing installation without requiring recalculation during the initial setup. In a conventional heating control system, even small changes in the building can affect the temperature balance. The Auto balancing function of the X-60 and X-80 Base Controllers can automatically adapt to these changes to maintain comfort at all times – certified by TÜV Rheinland.

## Base Controller

### X-60



- Heating mode
- Auto balance heating
- 6 zones / 6 x 2 actuators
- Pump relay
- Day/night switch
- Standard 230V wiring

### X-80



- Heating and cooling mode
- Auto balance heating
- 10 zones / 12 independent actuators
- Pump and boiler relay
- Day/night switch
- Standard 230V wiring
- Optional extra recommended for cooling: S-80 condensation set

Find more information here: [www.uponor.com/230V-controller](http://www.uponor.com/230V-controller)



**Reduced energy consumption and optimum comfort with flexible Auto balancing technology:**

As part of the Base family, the Uponor Base Controller X-60 and X-80 open up a new era for wired heating and cooling systems. They regulate the actuators in response to demand signals from the thermostats to adjust the indoor temperature in each room. They initiate or stop the pump, and the X-80 can even start and stop the boiler and provide cooling without requiring special thermostats. Furthermore, the optional S-80 condensation set is designed to detect and avoid condensation.



## Key facts


- Wide freedom of thermostat choice
- **Applications:** heating and cooling
- Auto balancing heating

## Your benefits

- Energy cost savings
- High comfort
- No manual balancing required
- Easy installation and planning
- Fast wiring with simple correction procedure due to flexible assignment of thermostat and actuator

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## Documents / Resources

	<p><a href="#">Uponor X-60 Uponor Base Controller</a> [pdf] User Manual          X-60 Uponor Base Controller, X-60, Uponor Base Controller, Base Controller, Controller</p>
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## References

- [U Uponor | UK Leader in Plumbing, Heating, Cooling Solutions | Uponor](#)
- [U Wired individual room temperature control 230 V | Uponor](#)
- [User Manual](#)