

# Uponor

HEATING AND COOLING  
SOLUTIONS

## Uponor UP36 System Water Temperature Controller and Accessories

Uponor Housing Solutions is pleased to introduce the new UP36 Controller and Accessories. With it, you can have set-point water temperature control to a hydronic underfloor heating system with the added benefit of built-in weather compensation control. All this in an attractively styled and attractively priced package.



### Setpoint temperature control

The new UP36 controller uses a floating action mixing valve to vary and maintain the supply water temperature to a hydronic system at a fixed point. The supply water temperature is based on either the current outdoor temperature, or a fixed setpoint. The unit is configured as standard for setpoint control with functions such as setback included as standard.

### Weather compensation

As standard, this unit comes supplied with accessories to allow for weather compensation control. Once configured, this means that, via the positioning of a multi-way valve, water at the correct temperature may be supplied to the system by automatically varying the supply water temperature in relation to the outside temperature. In other words, the unit takes into account heat losses that will vary depending on the outside temperature and therefore produces a much more economical and efficient system.



### Pipe and outside temperature sensors

The unit comes as standard with an additional pipe sensor and an outside temperature sensor to allow for weather compensation benefits.

### Unoccupied (night) setback capability

This function allows for a much reduced water temperature to be pumped around the system at times when room temperature doesn't have to be within comfort zone (such as night-time or during long absence such as holidays, etc.). When the unit calls for the temperature to be raised to comfort level again (e.g. in the morning), the system's reaction time is reduced, as the room temperature has not been allowed to fall below a certain set point. This also means that it doesn't require as much energy to reach the required "occupied" temperature, producing a very economical way of providing comfort.

### Exercising function

The UP36 unit comes complete with a built-in exercising function. If the system valve or pump has not been operated at least once every three days, the control turns on the output for a minimum of 10 seconds. This minimizes the possibility of a pump or valve seizing during a long period of inactivity.

### At a glance:

- Setpoint water temperature control
- Configurable built-in weather compensation option
- Pipe and outside sensors included as standard
- Unoccupied (night) setback capability
- Built-in exercising option

### Accessories:

	Item No.
Non-adjustable room temperature sensor:	OJ076
230V (ac) floating action motor (for rotary shoes valves):	OJNR230
3/4" 3-port rotary shoe valve (kv=4):	010237
3/4" 3-port rotary shoe valve (kv=6.3):	010238
1" 3-port rotary shoe valve (kv=8):	010239
1" 3-port rotary shoe valve (kv=12):	010240
1 1/4" 3-port rotary shoe valve (kv=18):	010242
3/4" 4-port rotary shoe valve (kv=4):	OJMIX20R
3/4" 4-port rotary shoe valve (kv=6.3):	OJMIX20S
1" 4-port rotary shoe valve (kv=8):	OJMIX25R
1" 4-port rotary shoe valve (kv=12):	OJMIX25S
1 1/4" 4-port rotary shoe valve (kv=18):	OJMIX32

### Data and facts:

**UP36 System Controller:**  
**Control:**  
**Packaged weight:**  
**Case material:**  
**Ambient conditions:**

**Item No. UP36**  
Microprocessor PID control  
1250g  
White PVC plastic  
Indoor use only  
0°C to 39°C  
<90% RH non-condensing  
Altitude <2000m  
Installation Category II  
Pollution Category II

**Power supply:** 230V +/-10%, 50Hz, 2300VA  
**Dimensions:** 170mm x 193mm x 72mm  
**Approvals:** CE approved, meets ICES & FCC regulations for EMI/RFI  
**Sensors included:** 1 off outdoor sensor 91624  
2 off universal sensor 91736  
**Mix demand:** 20V to 260V (AC), 2VA  
**Relays:** 230V (AC), 10A, 1/3hp  
Pilot duty 240VA

**Outdoor sensor:**  
**Enclosure:**  
**Dimensions:**  
**Approvals:**  
**Operating range:**  
**Sensor:**

**Item No. 91624**  
White PVC plastic  
114mm x 73mm x 38mm  
CSA C US, CE approved  
-50°C to 60°C  
NTC thermistor  
10k @ 25°C +/-0.2°C  
 $\beta = 3892$

**Universal sensor:**  
**Enclosure:**  
**Dimensions:**  
**Approvals:**  
**Operating range:**  
**Sensor:**

**Item No. 91736**  
Zinc sleeve, 20 AWG XPE wire  
9.5mm OD x 19mm  
CSA C US, CE approved  
-50°C to 125°C  
NTC thermistor  
10k @ 25°C +/-0.2°C  
 $\beta = 3892$

Uponor Housing Solutions  
Snapthorpe House  
Rugby Road  
Lutterworth  
Leicestershire  
LE17 4HN

T 01455 550355  
F 01455 550366  
E [hsenquiries@uponor.co.uk](mailto:hsenquiries@uponor.co.uk)  
W [www.uponorhousingolutions.co.uk](http://www.uponorhousingolutions.co.uk)

uponor