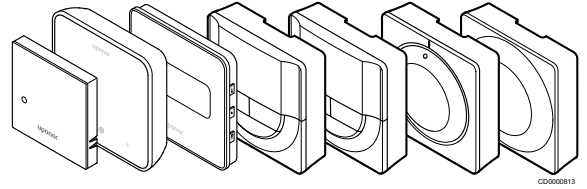




Uponor Smatrix Base/Wave thermostats



IC0000120



The thermostat is one of the core component in Smatrix control system. It communicates with the Uponor Smatrix Base room controller by a wired communication protocol and with the Uponor Smatrix Wave room controller through radio communication protocol. The thermostats can be used together with other thermostats, but only within the same family—for example, Base thermostats with a Base controller and Wave thermostats with a Wave controller.

Uponor Smatrix Base thermostats:

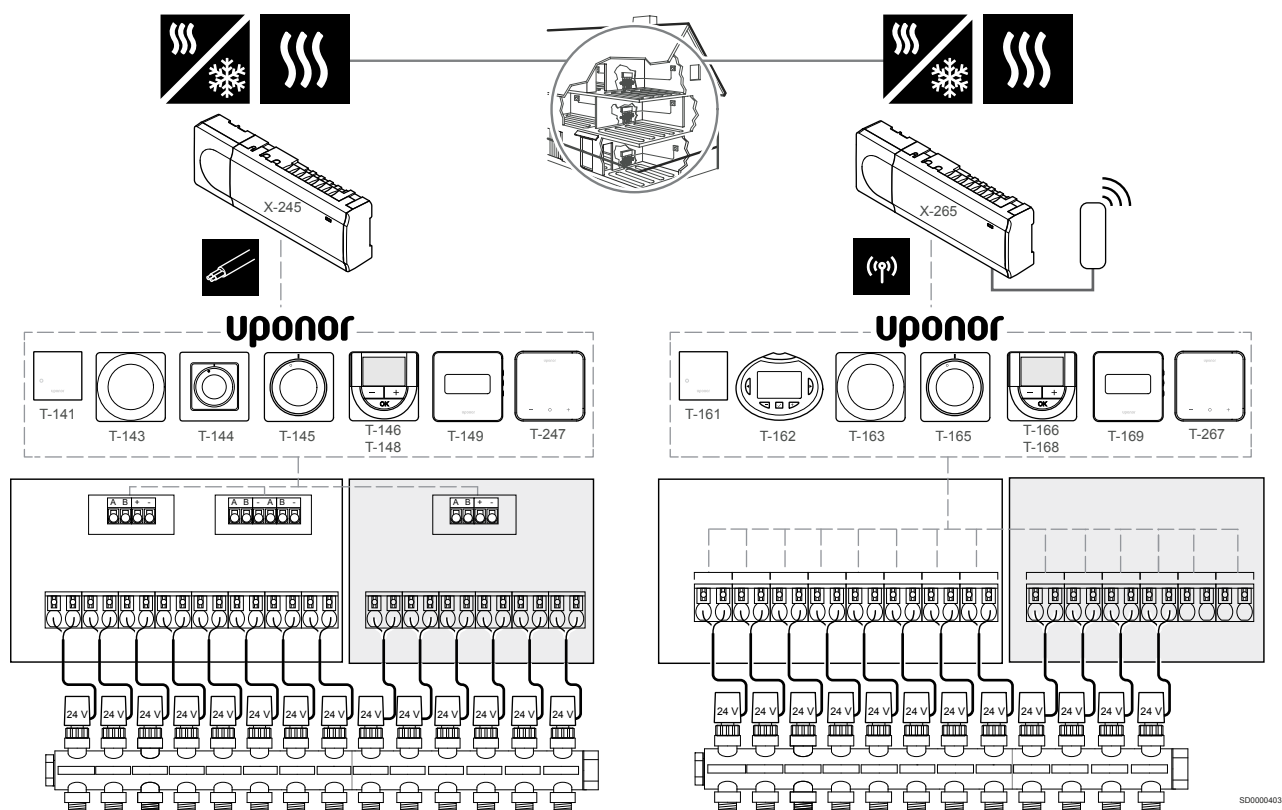
- Uponor Smatrix Base T-141
- Uponor Smatrix Base T-143
- Uponor Smatrix Base T-144
- Uponor Smatrix Base T-145
- Uponor Smatrix Base T-146
- Uponor Smatrix Base T-148

- Uponor Smatrix Base T-149
- Uponor Smatrix Base T-247

Uponor Smatrix Wave thermostats:

- Uponor Smatrix Wave T-161
- Uponor Smatrix Wave T-162
- Uponor Smatrix Wave T-163
- Uponor Smatrix Wave T-165
- Uponor Smatrix Wave T-166
- Uponor Smatrix Wave T-168
- Uponor Smatrix Wave T-169
- Uponor Smatrix Wave T-267

Uponor Smatrix Base/Wave Pulse installation example



SD0000403

Features

Uponor Smatrix Base

								
Base	T-141	T-143	T-144	T-145	T-146	T-148	T-149	T-247
Clock and date (display/setting)						✓		
Programmable Comfort/ECO schedules	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓	✓ ¹⁾	✓ ¹⁾
Comfort/ECO (indication and mode from system setting)	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓	✓	✓	✓
Digital display					✓ ³⁾	✓ ³⁾	✓	
LED display								✓ ⁴⁾
Software version at power up					✓	✓	✓	✓
Control mode settings in display		✓ ⁵⁾			✓	✓	✓	✓
Celsius/Fahrenheit in display	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓	✓	✓	✓
ECO setback value	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓	✓	✓	✓
Setpoint adjustment	✓ ²⁾	✓ ⁶⁾	✓	✓	✓	✓	✓	✓
Set point range 5 – 35 °C	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾
Cooling allowed	✓	✓	✓	✓	✓	✓	✓	✓
External temperature sensor connection (floor, room, outside, or remote temperature)		✓			✓	✓	✓	✓
Heating or cooling demand indication	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓	✓	✓	✓
Relative humidity sensor	✓					✓	✓	✓
Blue LED indication after setpoint adjustment using dial			✓	✓				
Dip switch to enable or disable ECO mode		✓	✓	✓				
Tamper alarm		✓						
Flush mounted			✓					

1) Available through cloud connectivity in Uponor Smatrix Pulse app

2) Requires user interface (Base Pulse: Uponor Smatrix Pulse app, Base PRO: Interface I-147)

3) Backlight after button press

4) Standby/Run mode after button press

5) Available DIP-switch control modes: Room temperature sensor (RT), room temperature sensor and floor temperature sensor (RFT), remote sensor (RS), room temperature sensor and outdoor temperature sensor (RO)

6) Potentiometer placed on its back

Uponor Smatrix Wave

								
Wave	T-161	T-162	T-163	T-165	T-166	T-168	T-169	T-267
Clock and date (display/setting)						✓		
Programmable Comfort/ECO schedules	✓ ¹⁾	✓ ⁸⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓	✓ ¹⁾	✓ ¹⁾
Comfort/ECO (indication and mode from system setting)	✓ ²⁾	✓	✓ ²⁾	✓ ²⁾	✓	✓	✓	✓
Digital display		✓ ³⁾			✓ ³⁾	✓ ³⁾	✓	
LED display								✓ ⁴⁾
Low battery indication	✓ ²⁾	✓	✓ ²⁾	✓ ²⁾	✓	✓	✓	✓
Software version at power up		✓			✓	✓	✓	✓
Control mode settings in display			✓ ⁵⁾		✓	✓	✓	✓
Celsius/Fahrenheit in display	✓ ²⁾	✓	✓ ²⁾	✓ ²⁾	✓	✓	✓	✓
ECO setback value	✓ ²⁾	✓ ⁹⁾	✓ ²⁾	✓ ²⁾	✓	✓	✓	✓
Setpoint adjustment	✓ ²⁾	✓	✓ ⁶⁾	✓	✓	✓	✓	✓
Set point range 5 – 35 °C	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾
Cooling allowed	✓		✓	✓	✓	✓	✓	✓
External temperature sensor connection (floor, room, outside, or remote temperature)			✓		✓	✓	✓	✓
Heating or cooling demand indication	✓ ²⁾	✓ ¹⁰⁾	✓ ²⁾	✓ ²⁾	✓	✓	✓	✓
Connection distance 30 m radio ⁷⁾	✓	✓	✓	✓	✓	✓	✓	✓
Relative humidity sensor	✓					✓	✓	✓
Blue LED indication after setpoint adjustment using dial				✓				
Dip switch to enable or disable ECO mode			✓	✓				
Tamper alarm			✓					

1) Available through cloud connectivity in Uponor Smatrix Pulse app

2) Requires user interface (Wave Pulse: Uponor Smatrix Pulse app)

3) Backlight after button press

4) Standby/Run mode after button press

5) Available DIP-switch control modes: Room temperature sensor (RT), room temperature sensor and floor temperature sensor (RFT), remote sensor (RS), room temperature sensor and outdoor temperature sensor (RO)

6) Potentiometer placed on its back

7) Depends on surrounding radio frequency environment noise and installation setup

8) Only with T-168 or through cloud connectivity in Uponor Smatrix Pulse app

9) Only with thermostats that has Eco setback or with user interface (Wave Pulse: Uponor Smatrix Pulse app)

10) Only Heating demand indication

System compatibility



Note

For more detailed information, product range and documentation please visit the Uponor website: www.uponor.com.

- Uponor Smatrix Base Pulse
- Uponor Smatrix Base PRO
- Uponor Smatrix Base PRO Modbus RTU

Uponor Smatrix Wave

The Uponor Smatrix Wave thermostats are compatible with the system listed below:

- Uponor Smatrix Wave Pulse

Uponor Smatrix Base

The Uponor Smatrix Base thermostats are compatible with the systems listed below:

Documentation overview

System type	Product name	Document type	Document name
Uponor Smatrix Base Pulse	Uponor Smatrix Base T-141	Installation and operation manual	Uponor IOM Smatrix Base Pulse
	Uponor Smatrix Base T-143	Installation and operation manual	
	Uponor Smatrix Base T-144	Installation and operation manual	
	Uponor Smatrix Base T-145	Installation and operation manual	
	Uponor Smatrix Base T-146	Installation and operation manual	
	Uponor Smatrix Base T-148	Installation and operation manual	
	Uponor Smatrix Base T-149	Installation and operation manual	
	Uponor Smatrix Base T-247	Installation manual	Uponor IM Smatrix Base thermostat
Uponor Smatrix Base PRO	Uponor Smatrix Base T-141	Installation and operation manual	Uponor IOM Smatrix Base/Base PRO
	Uponor Smatrix Base T-143	Installation and operation manual	
	Uponor Smatrix Base T-144	Installation and operation manual	
	Uponor Smatrix Base T-145	Installation and operation manual	
	Uponor Smatrix Base T-146	Installation and operation manual	
	Uponor Smatrix Base T-148	Installation and operation manual	
	Uponor Smatrix Base T-149	Installation and operation manual	
	Uponor Smatrix Base T-247	Installation manual	Uponor IM Smatrix Base thermostat
Uponor Smatrix Base PRO Modbus RTU	Uponor Smatrix Base T-141	Installation and operation manual	Uponor IOM Smatrix Base/Base PRO
	Uponor Smatrix Base T-143	Installation and operation manual	
	Uponor Smatrix Base T-144	Installation and operation manual	
	Uponor Smatrix Base T-145	Installation and operation manual	
	Uponor Smatrix Base T-146	Installation and operation manual	
	Uponor Smatrix Base T-148	Installation and operation manual	
	Uponor Smatrix Base T-149	Installation and operation manual	
	Uponor Smatrix Base T-247	Installation manual	Uponor IM Smatrix Base thermostat
Uponor Smatrix Wave Pulse	Uponor Smatrix Wave T-161	Installation and operation manual	Uponor IOM Smatrix Wave Pulse
	Uponor Smatrix Wave T-162	Installation and operation manual	
	Uponor Smatrix Wave T-163	Installation and operation manual	
	Uponor Smatrix Wave T-165	Installation and operation manual	
	Uponor Smatrix Wave T-166	Installation and operation manual	
	Uponor Smatrix Wave T-168	Installation and operation manual	
	Uponor Smatrix Wave T-169	Installation and operation manual	
	Uponor Smatrix Wave T-267	Installation manual	Uponor IM Smatrix Wave thermostat
		Operation manual	Uponor OM Smatrix Wave thermostat

This table gives an overview of the documents available for each compatible Uponor product.



Uponor GmbH

Industriestraße 56,
D-97437 Hassfurt, Germany

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Production: Uponor / SKA

Uponor reserves the right to change the product portfolio and the related documentation without prior notification, in line with its policy of continuous improvement and development.



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