Uponor

Uponor Smatrix Pulse R-208

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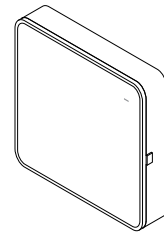
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!	**Note**
	Setting up a system with a communication module requires a mobile device (smart phone/tablet).

!	**Note**
	It is recommended to attach the communication module to a wall outside of the cabinet when using Wi-Fi connection.

The communication module enables local and remote (requires connection to Uponor cloud services) access to the room controller from a mobile device (using the Uponor Smatrix Pulse app).

The communication module contains both an antenna module (for internal communication with thermostats and such), and a local network module for Wi-Fi or ethernet communication.

The app acts as a link between the user/installer and the room controller(s) running in the system, displaying information and enabling simplified programming of all relevant system settings. The Uponor Smatrix Pulse app can be downloaded from Google Play (Android) or App Store (iOS).

The Uponor Smatrix Wave system can be operated without the app and communication module, but only with basic functionality (using the thermostats).

Function

Main characteristics:

- Uponor Smatrix Pulse app connectivity.
- Connection to router using either Wi-Fi or ethernet.
- Internal radio antenna for communication within the Uponor Smatrix system (eliminates the need for the regular antenna).
- Extra functionality (using Uponor Smatrix Pulse app):
  - Heating/cooling settings
  - Extra relay functionality (chiller, dehumidifier etc).
  - Integrate up to four room controller into one system.

Options:

- Cabinet or wall mounted (DIN rail or supplied screws).

Components of the communication module:

The illustration below shows the communications module and its components.

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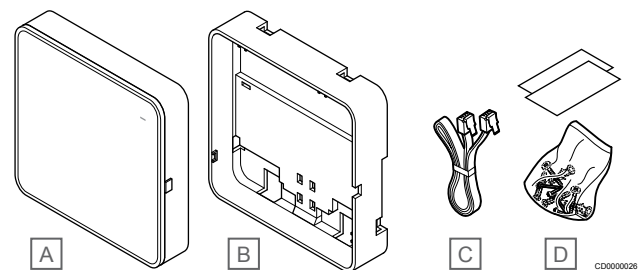
Item	Description
A	Uponor Smatrix PULSE Com R-208
B	Optional back mount for DIN-rail
C	Communication cable
D	Mounting material

Dimensions

55 mm
19 mm
19 mm
110 mm
10 mm
48 mm
55 mm
60 mm
110 mm
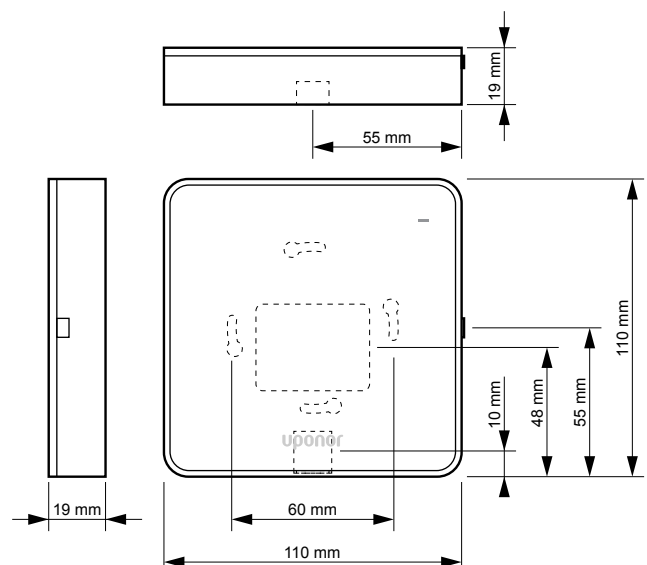
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Technical data

Communication module	R-208
IP	IP20, class III (IP: degree of inaccessibility to active parts of the product and degree of water)
Max. ambient RH (relative humidity)	85% at 20 °C
CE marking	
Low voltage tests	EN 60730-1* and EN 60730-2-9***
EMC (electromagnetic compatibility requirements) tests	EN 60730-1 and EN 301-489-3
ERM (electromagnetic compatibility and radio spectrum matters) tests	EN 300 220-3
Power supply	From room controller
Pollution degree	2
Software class	A
Operating temperature	0 °C to +45 °C
Storage temperature	-20 °C to +70 °C
Wi-Fi connectivity	802.11 b/g/n @2.4Ghz
Wi-Fi security	WPA & WPA2
Radio frequency	868.3 MHz
Radio frequency, EAC markets only	869 MHz
Transmitter duty cycle	<1%
Receiver class	2
Connection terminals	RJ45 Ethernet connection (10/100BaseT)

*) EN 60730-1 Automatic electrical controls for household and similar use -- Part 1: General requirements

**) EN 60730-2-1 Automatic electrical controls for household and similar use -- Part 2-1: Particular requirements for electrical controls for electrical household appliances

***) EN 60730-2-9 Automatic electrical controls for household and similar use -- Part 2-9: Particular requirements for temperature sensing controls

Usable in all Europe	$C\mathcal{E}$

Declaration of conformity:

We hereby declare under our own responsibility that products dealt with by these instructions satisfy all essential demands linked to the information stated in the Safety instruction booklet.

ЕАС (869 MHz only)

Uponor reserves the right to make changes, without prior notification, to the specification of incorporated components in line with its policy of continuous improvement and development.

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