Synco™ living

Room Unit   QAW910

- **Wireless room unit**
- **RF communication based on KNX standard (868 MHz, bidirectional)**
- **Operation and display of space heating functions**
- **Acquisition of the room temperature**
- **Battery-powered by commercially available 1.5 V batteries**

Use

- For integration into the Siemens Synco living system
- Selection of room operating mode, timer function and room temperature setpoint readjustment
- Display of space heating function and status messages
- Acquisition of the room temperature in HVAC plant
- Especially suited for:
  - Renovation projects (old buildings, museums, churches, historical buildings, etc.)
  - Difficult wall-mounting situations (sandstone, glass, etc.)
  - Variable floor plans (different décors, other furniture)
  - New houses and buildings

Equipment combinations

The QAW910 room unit is designed for use with the Siemens Synco living system. For more detailed information about equipment combinations, refer to the Data Sheet covering the central apartment unit (CE1N2707en).

Ordering

When ordering, please give quantity, product name and type reference.

Scope of delivery   Each QAW910 is supplied complete with alkaline batteries, fixing material and Mounting Instructions.

Product documentation

The Operating and Commissioning Instructions for the QAW910 are contained in the product documentation of the central apartment unit.

Functions

Main function   The QAW910 is used for the operation and display of basic space heating functions. It also forwards the acquired room temperature to the central apartment unit, either periodically or when changes occur. The room temperature is shown on the display of the QAW910.

Room operating mode   The room operating mode can be switched from Automatic to Manual, and vice versa. The selection is made with the "Mode" button and shown on the display.

Timer function   The timer function is used to activate Comfort mode of the respective room for up to 24 hours. The setting is made with the "Timer" button and shown on the display.

Room temperature setpoint readjustment   The room temperature setpoint can be readjusted with the setting knob. The readjustment made is shown on the display.

Binding   The binding is used by the QAW910 to sign on at the central apartment unit, thus ensuring integration into the RF system. The binding process is triggered via the multifunction button. The RF symbol appears on the display.

Status query   The multifunction button can be used to query the batteries' capacity. It appears on the display. When the batteries are close to exhaustion, their state is constantly displayed.

RF binding test   The multifunction button can be used to trigger a binding test. This test is made to check the radio link to the central apartment unit. The RF symbol appears on the display.

Supply state   The multifunction button can be used to reset the QAW910 to the default state as supplied. Then, the QAW910 must be reintegrated into the system.
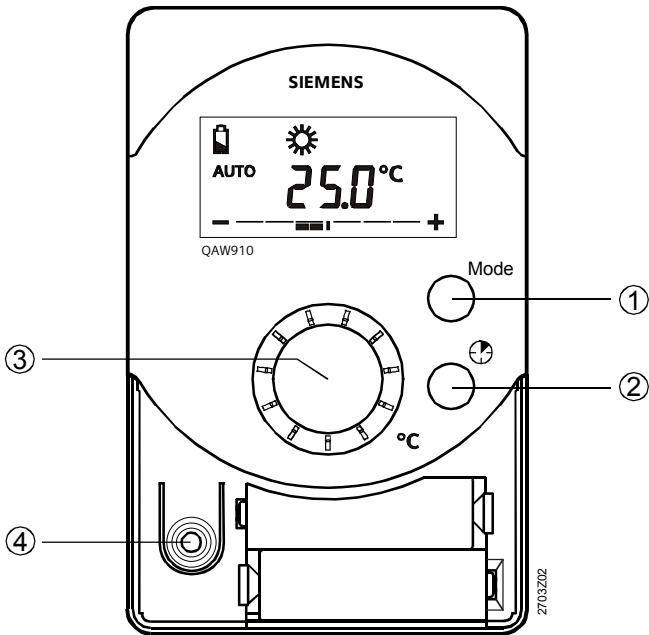
Error and maintenance messages

All error and maintenance messages are forwarded to the central apartment unit where they appear on the display.

The following messages are delivered by the QAW910:

Error messages	Maintenance message
Sensor error (failure of room temperature sensor)	Batteries exhausted (battery life $\leq$ 3 months)
Communication error (no communication for one hour)	

Operating and indicating elements
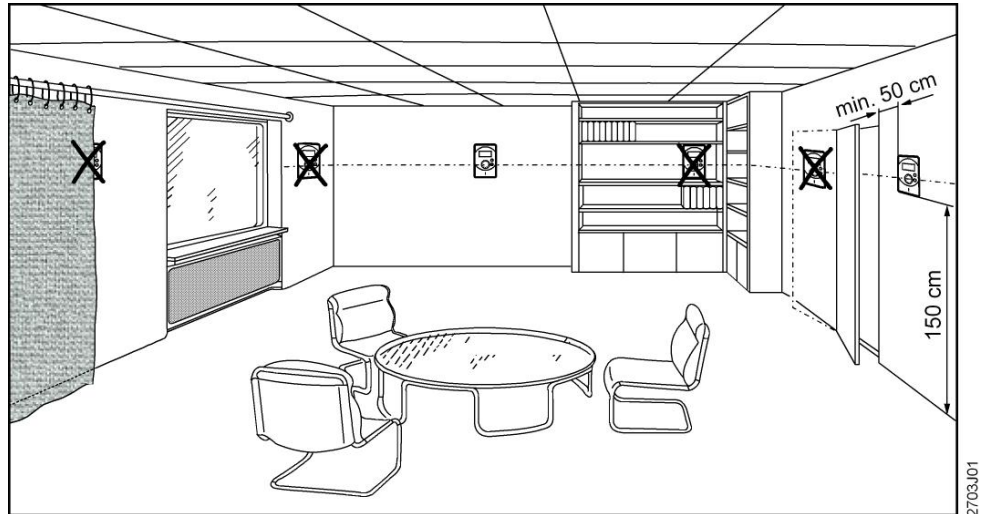
Operating elements

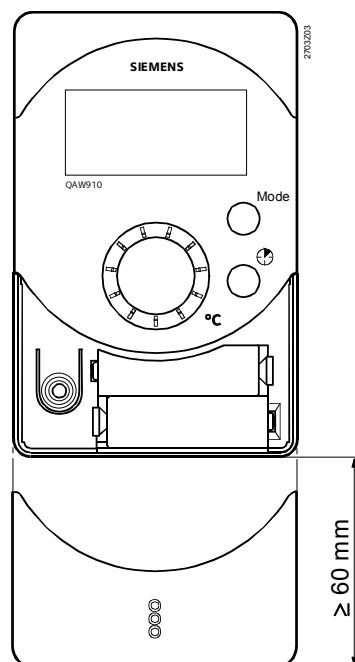| Operating elements	Function
① "Mode" button	Selection of room operating mode: (Automatic, Manual, Comfort, Precomfort, Economy, and Protection)
② "Timer" button	Activation and setting of timer function
③ Setting knob	Room temperature setpoint readjustment. It acts on the Comfort and Precomfort setpoint within a range of -3 to +3 °C
④ Multifunction button (inside the battery compartment)	Battery state query RF binding test Binding Disconnect device from system Reset to supply state

For more detailed information about the functions and operation of the QAW910, refer to the product documentation covering the central apartment unit.

Mounting location

The QAW910 must be mounted inside the house or building, on an inner wall about 1.5 m above the floor. To ensure that the QAW910 will acquire the room temperature as accurately as possible, the following conditions must be observed:

- The QAW910 must not be mounted on an outer wall, not in niches, bookshelves, and not behind doors or curtains
- Temperature acquisition must not be adversely affected by direct solar radiation, air drafts, or other heat or refrigeration sources
- The permissible environmental conditions must be observed
- The QAW910 must not be exposed to dripping water
- For notes relating to engineering and mounting RF devices of the Siemens Synco living system, refer to Data Sheet CE1N2708en
- The base of the room unit must be fitted on a flat wall
- Minimum clearance at the bottom should be 60 mm to ensure that the battery compartment is easily accessible

Installation

4 / 6

Siemens
Building Technologies

Room Unit QAW910

CE1N2703en
2016-03-16

Mounting with the base:
The QAW910 can be fitted to most commercially available recessed conduit boxes or directly on the wall.

Note   Mount the QAW910 first and then insert the batteries.
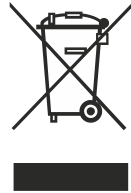
Commissioning   Prior to commissioning, check to ensure that the QAW910 is correctly fitted to the wall and that the batteries are correctly inserted.

Maintenance / battery change   The QAW910 is maintenance-free.
The system indicates when batteries must be replaced. The batteries are located in the battery compartment. Batteries can be changed without removing the sensor from the wall and there is no need for using tools (reversed polarity protection).

Disposal

The device is considered an electronics device for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.
- Dispose of empty batteries in designated collection points.

Warranty

Application-related technical data are only warranted in connection with the Siemens Synco living system. For equipment combinations, refer to the Data Sheet of the central apartment unit.
When using the QAW910 together with third-party devices, correct functioning must be ensured by the user. In that case, Siemens will assume no responsibility for service and warranty.

Technical data

Power supply	Type of battery	2 x alkaline batteries LR6 (AA) 1.5 V
	Battery life (capacity ≥ 2.5 Ah)	3 years
RF	Frequency	868 MHz (bidirectional)
	Range	typically 30 m inside buildings
	Protocol	KNX RF compatible KNX
Temperature sensor	Sensing element	NTC 10 kOhm resistor
	Measuring range	0…50 °C
	Time constant	20 minutes
Display	Type	segment LCD
	Resolution	0.1 °C
Standards	Product standard	EN 60730-1. Automatic electronic controls for household and similar use.
	Product family standard	EN 50491-x. General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS).
	Electromagnetic compatibility (application)	For residential, commercial, and industrial environments.

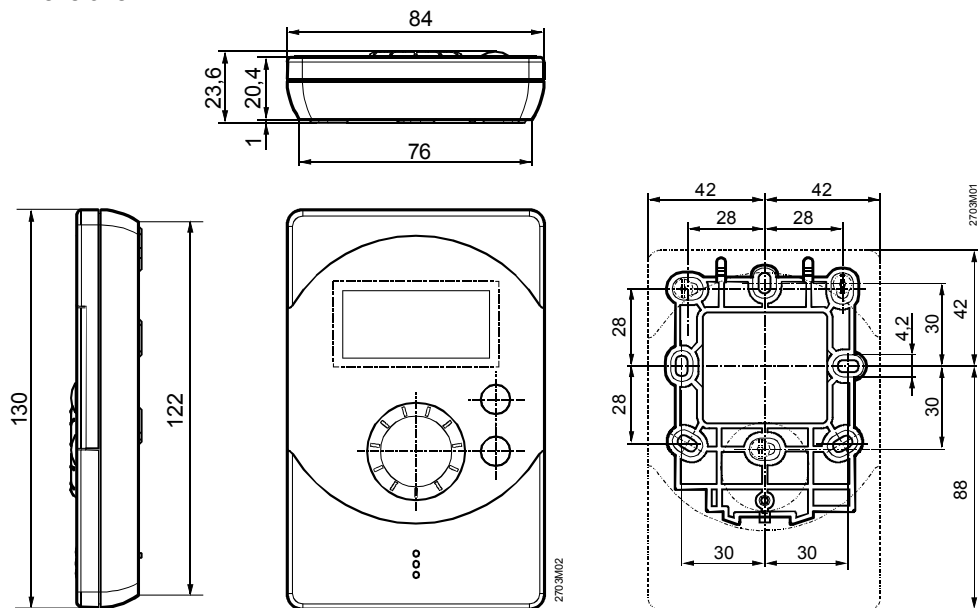| EU conformity (CE)	CE1T2703xx*
EAC conformity	Eurasia-Conformity
Environmental compatibility	The product environmental declaration (CE1T2703xx*) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

*These documents can be downloaded at: http://siemens.com/bt/download

Dimensions		refer to "Dimensions"
Weight	Unit complete with accessories	0.280 kg
Housing material		plastic ASA+PC
Housing color		white NCS S 0502-G

Environmental conditions

	operation IEC-60721-3-3	transport EN-60721-3-2	storage EN-60721-3-1
Climatic conditions	class 3K5	class 2K3	class 1K3
Temperature	0…+50 °C	-25…+70 °C	-20…+65 °C
Humidity	5…95 % r.h. (noncondensing)	<95 % r.h.	5…95 % r.h.
Mechanical conditions	class 3M2	class 2M2	class 1M2
Elevation above sea level	min. 700 hPa, corresponding to max. 3000 m above sea level		

[1] Completely mounted

Dimensions

Dimensions in mm

Siemens Building Technologies	Room Unit QAW910	CE1N2703en 2016-03-16