SIEMENS

Synco™living

Room Temperature Sensor   QAA910

- **Wireless room temperature sensor for acquiring the room temperature**
- **RF communication based on KNX standard (868 MHz, unidirectional)**
- **Battery-powered by commercially available 1.5 V batteries**

Use

- For integration into the Siemens Synco living system
- For acquiring 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 construction projects

Equipment combinations

The QAA910 room temperature sensor is designed for use with the Siemens Synco living system. For more detailed information about equipment combinations, refer to the Data Sheet of the central apartment unit (CE1N2707en).

Ordering

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

Scope of delivery

Each QAA910 is supplied complete with a set of alkaline batteries, fixing material and Mounting Instructions.

Product documentation

The Operating and Commissioning Instructions for the QAA910 are contained in the product documentation of the central apartment unit.

Functions

Main function

During operation, the QAA910 forwards the acquired room temperature to the central apartment unit, either periodically or in the case of changes.

Binding

The binding is used by the QAA910 to sign on at the central apartment unit, thus integrating it into the RF system. The binding process is triggered via the multifunction button. It is indicated by the multifunction LED.

Status query

The multifunction button can be used to query the batteries' capacity. It is indicated by the multifunction LED.

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 binding test is indicated by the multifunction LED.
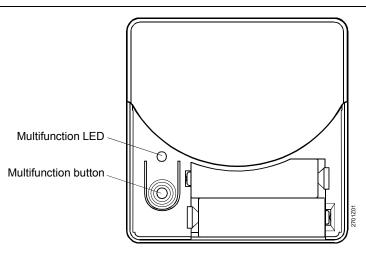
Error and maintenance messages

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 QAA910:

Error messages	Maintenance message
Sensor error (failure of the room temperature sensor)	Batteries discharged (battery life $\leq$ 3 months)

Operating and indicating elements

Overview of functions of the indicating and operating elements of the QAA910:

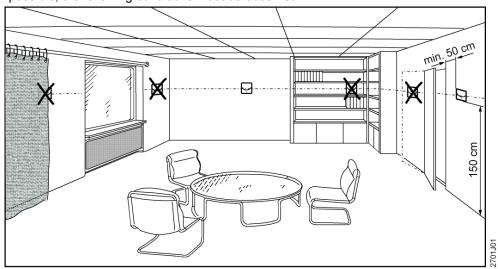| Multifunction LED	Multifunction button
• Battery state	• Battery state query
• Binding process	• Binding
	• RF binding test

For more detailed information about the functions and operation of the QAA910, refer to the product documentation covering the central apartment unit.

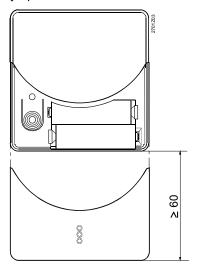**Notes on engineering and operation**

Mounting location

The QAA910 must be mounted inside the house or building, on an inner wall about 1.5 m above the floor.
To ensure that the QAA910 will acquire the room temperature as accurately as possible, the following conditions must be observed:

- The QAA910 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 QAA910 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 QAA910 must be fitted on a flat wall
- Minimum clearance at the bottom should be 60 mm to ensure that the battery compartment can be easily opened

Mounting	Mounting with the base.
	The QAA910 can be fitted to most commercially available recessed conduit boxes or directly on the wall.
Note	Mount the QAA910 first and then insert the batteries.

Commissioning

Prior to commissioning, check to ensure that the QAA910 is correctly fitted to the wall and that the batteries are correctly inserted.

Maintenance / battery change

The QAA910 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 to use tools (reversed polarity protection).

Disposal

In terms of disposal, the QAA910 are classified as electronic scrap conforming to the European Directive 2002/96/EG (WEEE) and must not be disposed of as domestic waste. The relevant national legal regulations must be complied with. The sensor must be disposed of through the relevant channels. Local and currently valid legislation must be observed. Exhausted batteries must be disposed of in compliance with environmental regulations.

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 QAA910 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 (unidirectional)
	Range	typically 30 m inside buildings
	Protocol	KNX RF compatible $\widehat{KNX}$

Temperature sensor	Sensing element	NTC 10 kOhm resistor
	Measuring range	0…50 °C
	Time constant	20 minutes

Standards	$C\epsilon$ conformity to	
	EMC directive	2004/108/EC
	- Immunity, Emissions	- EN 60730-1
	Low-voltage directive	2006/95/EC
	- Electrical safety	- EN 60730-1
	RTTE (Radio & Telecom. Equipment)	1999/5/EC
	- Wireless communication	- EN 300220-2, EN 301489-1, EN 301489-3

Protection	Safety class	III to EN 60730
	Housing	IP40[1] to EN 60529
	Degree of pollution	2 to EN 60730

Environmental compatibility	Environmental product declaration CE1E2701en provides information on environmentally compatible product design and assessment (RoHS compliance, composition of substances, packaging, environmental benefit and disposal)	ISO 14001 (Environment) ISO 9001 (Quality) SN 36350 (Environmentally compatible products) 2002/95/EC (RoHS)

Dimensions		refer to "Dimensions"
Weight	Unit complete with accessories	0.214 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

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