SIEMENS OEM





QAA50.110

QAA70



Room Units for Boiler Temperature Control

QAA50.110 QAA70

PPS Interface

Digital, multifunctional room units for enhancing the functionality of boiler controllers.

With integrated temperature sensor, heating program and a number of control functions.

ıca

Use Used in combination with boiler or heating controllers (RVA...). Room temperature

control in:

Single or 2-family houses

Smaller multifamily houses

· Holiday houses and villas

Application Standard heating systems, such as radiator, convector, underfloor and ceiling heating

systems, and radiant panels.

Market The room units are designed for the OEM market. They are supplied directly to the

boiler manufacturer.

Operating functions

	QAA7	QAA5
Operating levels based on ergonomic and functional considerations		х
Operating mode, setpoint adjustment and occupancy button	Х	Х
Every setting or change is displayed and thus acknowledged		х
7-segment display	Х	Х
A number of actual values can be accessed via the Info button	х	
Additional functions can be programmed after opening the cover	х	
Special service level with protected access	х	
One 7-day program per heating circuit and up to 3 switching cycles per day can be selected on an individual basis	х	
Holiday program		
Resetting to default values, if required		
Programming lock (e.g. for child-proofing)	х	
Elegant housing made of recyclable plastic	х	х
Communication with the boiler temperature controler over PPS	x	x

Other features

Elegant housing made of recyclable plastic		
Communication with the boiler temperature controler over PPS	х	х
Powered via PPS	х	х
Straightforward installation	х	х
Cable entry for wall mounting or mounting on a recessed conduit box	х	Х

Type summary

Туре	Type reference	Compatible with	
QAA70	Room unit bus (PPS)	RVA	
QAA50.110			
QAW44	Remote room sensor	QAA70	

Technical features

Additional function descriptions

For a more detailed description of the technical design, refer to documentation CE1P1638.

Mechanical design

Room unit

The unit consists of the following components:

- Housing with integrated electronics and operating elements
- Base for wall mounting with the connection terminals

Operating elements

- Button for selecting the operating mode
- Setting knob for adjusting the setpoint
- Occupancy button for temporary changeover
- Info button (QAA70)
- Line selection and adjustment of values with buttons behind the housing front (QAA70)

Display







QAA50.110

Technical data

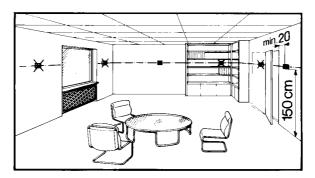
erating voltage	PPS	
	Terminals	2-wire connection (interchangeable)
	cable length	max. 75 m with a cross-section of 0.5 mm ²
	Cable resistance	max. 2 x 3 Ohm
	Power consumption	QAA50.110: 45 mW (typically)
		QAA70: 100 mW
Protection	Safety class	III to EN 60730 (when mounted correctly)
	Degree of protection of hous	sing QAA50.110: IP 20 to EN 60529
		QAA70: IP 30 to EN 60529
	Contamination	environment to EN 60730
onmental	Operation	IEC 721-3-3 class 3K 5
itions	Temperature	050 °C
	Humidity	< 85 % r.h.
	Transport	IEC 721-3-2 class 2K 3
	Temperature	-2570 °C
	Humidity	< 95 % r.h.
	Storage	IEC 721-3-1 class 1K 3
	Temperature	-2570 °C
	Humidity	< 95 % r.h.
ndards	C€ conformity	
	EMC directive	89/336/EEC
	Immunity	EN 50082-1, EN 50082-2, EN 60730-1
	•	EN 50090-2
	Emissions	EN 50081-1, EN 50081-2, EN50090-2-2
	Low voltage directive	73/23/EEC
	– Electrical safety	EN 60730-1, EN 60730-2-9
Room sensor	Measuring range	QAA50.110: 045 °C
		QAA70: 032 °C
Other features	Backup of time switch	QAA50.110: None
	9	QAA70: min. 12 h
	Software class	A to EN 60 730
	Weight	QAA50.110: approx. 0.17 kg
		QAA70: approx. 0.22 kg

Product liability

- The products may only be used in building services plant and applications as described above.
- When using the products, all requirements specified under "Technical data" must be observed.
- The local regulations for electrical installation must be complied with.

Engineering

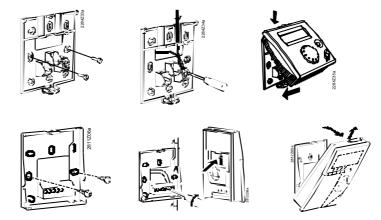
- In the main living room or reference room.
- The place of installation should be chosen so that the sensor can capture the room temperature as accurately as possible, without being affected by direct solar radiation or other heating or cooling sources.
- Mounting height is about 1.5 meters above the floor.
- The unit can be fitted to most commercially available recessed conduit boxes or directly on the wall.



installation

Wall mounting

QAA50.110



QAA70

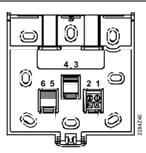
• The controller may not be exposed to dripping water.

Installation

• The local regulations for electrical installations must be complied with.

Connection diagram

QAA50.110



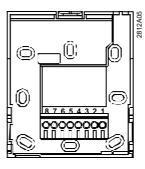
1 A6 PPS (interchangeable) 2 MB PPS (interchangeable)

3 - -4 - -

5 - -



QAA70



1 A6 PPS for boiler control (interchangeable)

2 MB PPS for boiler control (interchangeable)

3 Room temperature sensor QAW44 /

potentialfree contact

4 Room temperature sensor QAW44 /

potentialfree contact

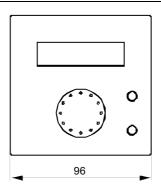
5 - -

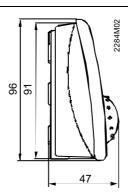
6 -

8 - -

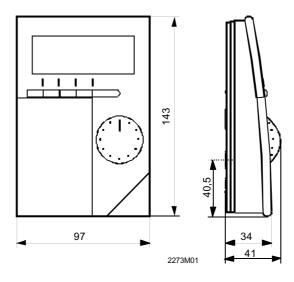
Dimensions

QAA50.110





QAA70



Remote room sensor QAW44

