

Room Unit, KNX IoT/Thread

QMA340KT



Room Unit, KNX IoT/Thread

- Wireless communication KNX IoT via Thread
- Measurement accuracy: Up to ± 0.5 °C and ± 2.5 % r.h.
- LED display resolution × pixels
- Integrated temperature sensor
- Easy mounting (wall, flush and tape mounting)
- COV functionality
- Up to **10 years** battery lifetime
- Dimensions: 88 × 120.8 × 16 mm

Use

The Wireless Room Unit QMA340KT measures the following values in buildings:

- Temperature
- Relative humidity

The Wireless Room Unit is commonly used in various application types, including:

- Office buildings
- Educational buildings
- Public buildings

The room unit exchanges data with controllers, room devices and tools via wireless communication KNX IoT over Thread.

Functions

Temperature measurement

The room unit measures temperature using a digital temperature and humidity sensor.

Relative humidity measurement

The room unit measures relative humidity using a digital temperature and humidity sensor.

Indoor air quality indication

The room unit indicates CO₂ levels using a traffic light LED: Green (ok), orange (fair), red (bad).

Low-power operation

With advanced algorithms and parameters, the room unit reduces measurement and communication frequency, achieving long sleep cycles and a battery life of up to 10 years.

Firmware update

The device supports over-the-air (OTA) firmware update. The device can be updated to the latest firmware version during commissioning.

Smart linking

The device supports smart linking, which allows for the automatic linking of group objects through a simple drag-and-drop action on smart linking channels.

Cybersecurity

Implements end-to-end encryption and authentication for all KNX IoT communications. All telegrams are digitally signed and encrypted, ensuring data integrity and confidentiality. Security mechanisms apply to both ETS-based commissioning and runtime communication between devices and visualizations.

Mechanical design

The Wireless Room Unit is designed for wall, flush, and tape mounting. It is compatible with most standard recessed conduit boxes available on the market.

The device consists of two parts:

- Front part including electronics
- Mounting plate

Type summary

Product No.	Stock No.	Temperature measuring range	Humidity measuring range	Batteries	Output signal
QMA340KT	S55627-H101	0...50 °C	5...95 %	4 × 1.5 V AAA alkaline	KNX IoT via Thread

Delivery

When ordering, specify name and product number, e.g.: Wireless Room Unit QMA340KT.

Packaging content

Name	Quantity
Wireless Room Unit	1
Mounting plate	1
Mounting instructions	1
Mounting tape	1
Set of screws and dowels	1
Batteries	4 x 1.5 V AAA alkaline batteries

Equipment combinations

Device type	Product No.	Stock No.
KNX IoT Router	OCT200.KNR	S55812-Y107
Thread Border Router	OCT110.BR	S55812-Y103
Wireless Room Sensor	QAA2890/WI	S55720-S550
	QFA2890/WI	S55720-S551
	QPA2892/WI	S55720-S552

Product documentation

Title	Document ID
Basic documentation	A6V15045993
Mounting instructions	A6V14784215
Planning and installation guide	A6V14476178
System limits	A6V14455022
Environmental product declaration	A5W0xxA

Title	Document ID
CE declaration of conformity	A5W0xxA
UKCA declaration of conformity	A5W0xxA
RCM declaration of conformity	A5W0xxA

Related documents such as the environmental declarations, declarations of conformity, etc., can be downloaded from the following Internet address:

www.siemens.com/bt/download

Notes

Safety

CAUTION



National safety regulations

Failure to comply with national safety regulations may result in personal injury and property damage.

- Observe national regulations and comply with the appropriate safety regulations.

WARNING



Explosion due to fire or short circuits, even with discharged batteries

Risk of injury due to flying parts

- Prevent the batteries from coming in contact with water.
- Do not recharge batteries.
- Do not damage or disassemble batteries.
- Do not heat batteries over 85 °C.
- Do not make batteries short-circuit.

WARNING



Risk of explosion

Personal injury and property damage

- Install the battery at the correct polarity (+/-) using the illustration in the battery compartment.
- Install only the correct battery types according to the indication in the battery compartment.
- In case of a leakage, avoid contact with skin, eyes and mucous membranes.
- Remove leaking batteries from the battery compartment with a cloth.

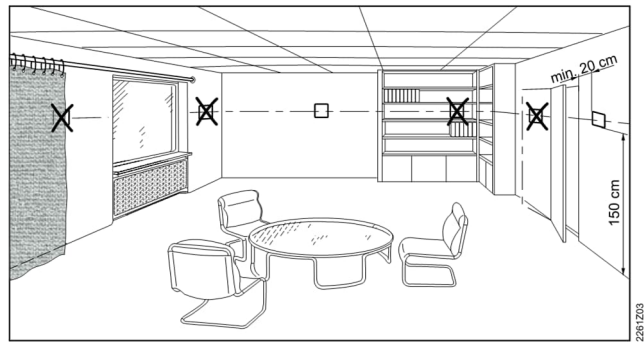
Observe the following:

- The batteries must be new and undamaged.
- Do not mix new and used batteries.
- Store, transport and dispose of the batteries in compliance with local requirements, regulations and laws and observe the instructions of the battery manufacturer.

NOTICE	
!	Radio frequency energy
	Interference to radio communications • Install and use equipment in accordance with the installation guide. • Read all regulatory compliance information.

Mounting

Location



- The device is designed for wall mounting, flush mounting and tape mounting.
- Install in indoor environments (device is not suitable for outdoor use); do not install in recesses, behind curtains, above or close to heat sources or shelves and not on walls where a chimney is located. Do not expose the unit to spotlights or direct sunlight.
- Do not install the device in a cabinet or metal container.
- Install the sensor in the occupied space about 1.5 m above the floor, at least 20 cm from the next wall.
- Seal the end of the conduit at the sensor to prevent false measurements caused by draughts through the conduit.

NOTICE	
!	See Mounting instructions (A6V14784215) for detailed instructions on how to mount the device.

The humidity sensor is a sensitive measuring device and must be handled with care. Chemical vapors at high concentrations in combination with long exposure times may distort the sensor reading.

NOTICE	
!	Avoid direct contact with chemicals in any form. Do not touch sensitive components with bare hands or tools as this will negatively impact measurement accuracy.

Replacing batteries

Battery replacement is required when any of the following conditions are met:

- LED is red and fast flashing (0.1 s on / 0.100 s off) for 8 s
- Battery low state is 1 ("true")
- Battery level is below 20 %

In such cases, the batteries must be replaced within two weeks.

For optimal performance, we recommend using high-performance alkaline batteries.

Note

Low battery power can cause unstable communication between the sensor and the Thread Border Router or KNX IoT Router.

Software update

Do not power off the device while updating. Do not update when battery power is low, as this may damage the device or cause data loss.

Disposal



This symbol or any other national label indicates that the product, its packaging, and, where applicable, any batteries may not be disposed of as domestic waste. Delete all personal data and dispose of the item(s) at separate collection and recycling facilities in accordance with local and national regulations.
For additional details, refer to [Siemens information on disposal](#).

Warranty

Technical data on specific applications are only valid together with Siemens products listed under "Equipment combinations". Siemens rejects any and all warranties in the event that third-party products are used.

Technical data

Power supply	
Operating voltage	DC 6 V (4 x 1.5 V AAA alkaline batteries)
Battery lifetime	Up to 10 years* (10 minutes wake-up cycle)
Power consumption	Max. 40 mA

*The battery lifetime is calculated based on default settings and normal operation. Battery lifetime may vary depending on environmental conditions and device settings.

Radio communication	
Frequency range	2400...2483.5 MHz
Maximum transmission power	9.94 dBm

Radio communication	
Protocol	KNX IoT via Thread
MAC protocol	IEEE 802.15.4
Thread channels	11...26

Communication range	
Distance (line of sight)	
- Room unit and KNX IoT Router - Room unit and Thread Border Router	- Max. 50 m * - Max. 50 m *

* Communication range is based on tests conducted in a Siemens testing environment. The actual range may vary depending on building structure and environmental conditions.

Functional data of sensor	
Temperature sensor	
Measuring range	0...50 °C (32...122 °F)
Measuring accuracy at 21...25 °C	$\leq \pm 0.5$ K
Time constant t_{63}	< 8 min *
Humidity sensor	
Measuring range	5...95 % r.h.
Measuring accuracy at 25 °C and 30...70 % r.h.	$\leq \pm 2.5$ % r.h.
Time constant t_{63}	< 8 min

* The time constant (t_{63}) only indicates the response behavior of the sensor under test conditions and without air flow. The time may vary depending on environmental conditions, mounting type, wall coupling, and device settings.

Ambient conditions and protection classification	
Classification as per EN 60730	
Function of automatic control devices	Type 1
Degree of contamination	2
Overvoltage category	I
Action type	1 as per EN 60730-1
Rated impulse voltage	0.33 kV as per EN 60730-1
Maximum altitude	3000 m as per EN 60730-1
Software class	A as per EN 60730-1
Protection degree of housing	IP30 according to EN60529
Protection class against electric shock	III according to EN60730
Environmental conditions	
Storage	
Climatic conditions	
Temperature	-15...+50 °C
Humidity	5...95 % r.h. (non-condensing)
Mechanical conditions	Class 1M2
Transport	
Climatic conditions	
Temperature	-20...+70 °C
Humidity	5...95 % r.h. (non-condensing)
Mechanical conditions	Class 2M2
Operation	
Climatic conditions	
Temperature (housing with electronics)	0...50 °C
Humidity	5...95 % r.h. (non-condensing)
Mechanical conditions	Class 3M2

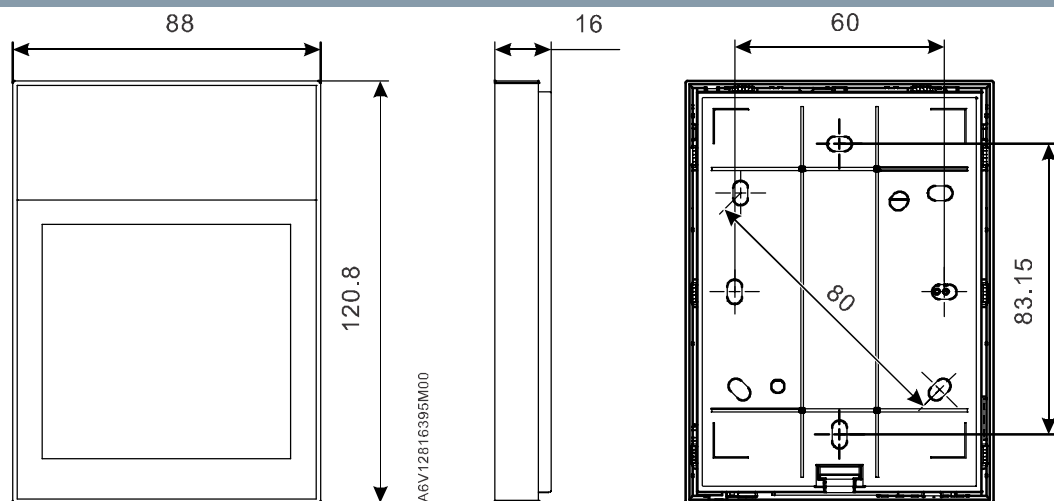
Standards, directives and approvals	
Product standards	EN IEC 63000 EN 301 489-1 EN 301 489-17 EN 62479 EN 60730-1 EN 300 328 EN IEC 63044-3 EN IEC 63044-5-1 EN IEC 63044-5-2 EN IEC 63044-5-3
Electromagnetic compatibility (Applications)	For use in residential, commercial, light-industrial, and industrial environments
EU conformity (CE)	A5W0xxA *)
UKCA conformity	A5W0xxA *)

Standards, directives and approvals	
RCM conformity	A5W0xxA *)
UL	UL 873, http://ul.com/database
RoHS	Directive 2011/65/EU restriction on the use of certain hazardous substances in electronic equipment
Environmental compatibility	The product environmental declaration (A5W0xxA *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

General	
Material	Polycarbonate
Color	White (RAL9016)
Packaging	Corrugated cardboard
Dimensions	88 × 120.8 × 16 mm
Weight with/without package	Approx. ? g/? g (with batteries)

*) The documents can be downloaded from <http://siemens.com/bt/download>.

Dimensions



Dimensions in mm

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation

FCC Caution: Changes or modifications not expressly approved by Siemens Switzerland Ltd. could void user authority to operate the equipment. United States representative <https://new.siemens.com/us/en/products/buildingtechnologies/home.html>

IC Statement

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiofrequency radiation exposure statement

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Déclaration d'exposition aux rayonnements de radiofréquence

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Ce transmetteur ne doit pas être placé au même endroit ou utilisé simultanément avec un autre transmetteur ou antenne.

United Kingdom conformity assessed

Contact for regulatory topics: (GB) Siemens plc, Sir William Siemens House, Princess Road, Manchester, M20 2UR

Radio equipment directive

Simplified EU Declaration of Conformity

Hereby, Siemens Switzerland Ltd declares that the radio equipment type QMA340KT is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://siemens.com/bt/download>.

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