

Test Report

Report No. : AGC16823241202SS01

PRODUCT DESIGNATION: Open-Source Sensor Beacon

BRAND NAME : Ruuvi

MODEL NAME : RuuviTag

APPLICANT: Ruuvi Innovations Oy

DATE OF ISSUE : Jan. 09, 2025

Consumer Goods (Products Containing Button/Coin

Batteries) Safety Standard 2020

STANDARD(S) : Consumer Goods (Products Containing Button/Coin

Batteries) Information Standard 2020

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Test Report Consumer Products Containing Button/Coin Batteries

Report Number...... AGC16823241202SS01

Tested by (+ signature)...... Sugar Xie

Reviewed by (+ signature)...... Dylon Yan

Sugar Xie

Pyton Yan

Byron Wang Approved by (+ signature)...... Byron Wang (Authorized Officer)

Date of issue...... Jan. 09, 2025 Total number of pages...... Total 11 pages

Testing laboratory

Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing location...... Same as above.

Applicant

Name...... Ruuvi Innovations Oy

Address...... Hämeenkatu 10, 11100 Riihimäki, Finland

Manufacturer

Name...... Ruuvi Innovations Oy

Address...... Hämeenkatu 10, 11100 Riihimäki, Finland

Factory

Name...... Ruuvi Innovations Oy

Address...... Hämeenkatu 10, 11100 Riihimäki, Finland

Test specification.....: Consumer Goods (Products Containing Button/Coin Batteries) Safety

Standard 2020;

Consumer Goods (Products Containing Button/Coin Batteries) Information

Standard 2020

The presented product is in compliance with the above listed test

specifications



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1. Description of the product

1.1 Description of the product

Name: Open-Source Sensor Beacon

Brand name: Ruuvi

Model / Series models RuuviTag

1.2 Product Function

Open-Source Sensor Beacon

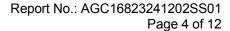
1.3 Technical Data

Rated input: 3.0Vdc Number of button / coin battery: 1 pcs Rated voltage of button / coin battery: 3.0Vdc Button / coin battery dimension: CR2477 Type of button / coin battery: ⊠ lithium alkaline silver oxide ☐ zinc-air other: ⊠ Yes Consumer Replaceable button / coin battery: No

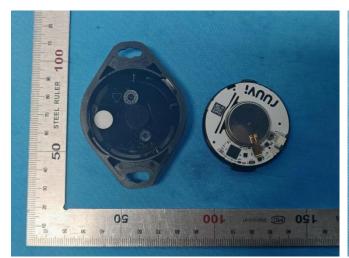
1.4 Picture(s) of goods













2. Warnings and information

2.1 Display type of Warning

- ⊠ On package
- ☐ On goods



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2.2 Copy of Warnings and information

2.2.1 On instruction

WARNING!

Keep out of reach of children.

Contains a coin cell battery. Hazardous if swallowed. Swallowing can lead to chemical burns, perforation of soft tissue, and death. Sever burns can occur withing 2 hours of ingestion. Seek medical attention immediately if swallowed or placed in any part of the body.

Wrap used batteries in sticky tape.

Poison Information Hotline

13 11 26

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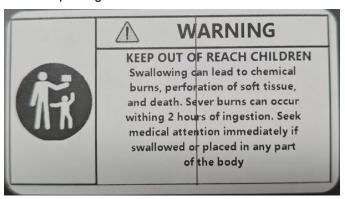
WARNING

KEEP OUT OF REACH OF CHILDREN Swallowing can lead to chemical burns, perforation of soft tissue, and death. Severe burns can occur within 2 hours of ingestion. Seek medical attention immediately.



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2.2.2 On package





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2.2.3 Warnings on goods:

N/A

2.2.4 Warnings for products sold online

Lithium Battery Safety Warnings

RuuviTag sensor contains a coin cell battery and it can be hazardous if swallowed. Keep the device always out of reach of children and install it to a location which is not accessible by young children.

WARNING

Swallowing can lead to chemical burns, perforation of soft tissue, and death. Sever burns can occur withing 2 hours of ingestion. Seek medical attention immediately if swallowed or placed in any part of the body.

Wrap used batteries in sticky tape and take them to the nearest recycling center.

Australian Poison Information Hotline 13 11 26



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3. Testing information

3.1 Test Sample(s)

Date(s) of receipt Test item Dec. 23, 2024

Date(s) of performance Testing Dec. 23, 2024 to Jan. 08, 2025

3.2 Test case verdicts

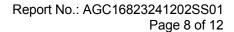
Test case does not apply to the test object N (/A)Test item does meet the requirement P (ass)Test item does not meet the requirement P (ass)

4. Summary

The test product is met the requirements of:

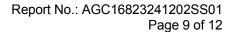
- 1. Consumer Goods (Products Containing Button/Coin Batteries) Safety Standard 2020
- 2. Consumer Goods (Products Containing Button/Coin Batteries) Information Standard 2020

Test report				
Clause	Requirement – Test	Result - Remark	Verdict	
8	Button/coin batteries must not release during reasonably foreseeable use or misuse conditions			
	(1) If consumer goods contain a button/coin battery (whether or not the battery is intended to be replaceable), the battery in the consumer goods must not release during reasonably foreseeable use or misuse conditions.		Р	
	(2) The consumer goods comply with the requirements in subsection (1) if, and only if, the consumer goods comply with the requirements in:			
	(a) subsection 12(1) (product-specific standards); or		N	
	(b) section 16 (non-product-specific standards).	UL4200A:2020 used	Р	
9	Compartment holding button/coin batteries must be resistant to being opened by young children			
	(1) If consumer goods contain a button/coin battery that is intended to be replaceable by a consumer, the compartment in which the battery is held must be designed to ensure the compartment is resistant to being opened by young children	The cover can not open except use a tool like a screwdriver	Р	
	(2) The consumer goods comply with the requirements in subsection (1) if, and only if, the consumer goods comply with the requirements in:			
	(a) subsection 13(1) (Audio/Video and Electronic Apparatus Standards); or		N	
	(b) subsection 14(1) (Luminaires Standard); or		N	



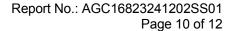


	Test report	t	
Clause	Requirement – Test	Result - Remark	Verdict
	(c) subsection 15(1) (Safety of Toys Standards); or		N
	(d) section 17 (non-product-specific standards).		Р
10	Fasteners for doors or covers to compartments holding button/coin batteries must be captive etc		
	(1) This section applies to consumer goods contain	ing a button/coin battery if:	
	(a) the battery is held in a compartment in the consumer goods; and		N
	(b) the door or cover providing access to the compartment is secured by screws or similar fasteners; and		N
	(c) those consumer goods comply with the requirements in subsection 8(1) by complying with the requirements in section 16 (non-product-specific standards) rather than complying with the requirements in subsection 12(1) (product-specific standards).	Requirements in subsection 12(1) be applied.	N
	(2) The consumer goods must be designed to ensure the screws or similar fasteners used to secure the door or cover providing access to the compartment are captive and remain with the door or cover.		N
	(3) The consumer goods comply with the requirements in subsection (2) if, and only if, before the supply of the consumer goods to a consumer, representative samples of the consumer goods are tested in accordance with:		
	(a) clause 13.4.6 of the Australian (Electric Toys) Standard; or		N
	(b) clause 13.4.6 of the International (Electric Toys) Standard; or		N
	(c) clause 4.101.2 of the Luminaires Standard		N
11	Secureness of consumer goods with non-replaceable button/coin battery accessible by consumers must be tested		
	(1) This section applies to consumer goods containing a button/coin battery if:		
	(a) the battery contained in the consumer goods is not intended to be replaceable by a consumer; and		N
	(b) the battery is accessible to the consumer.		N
	(2) Before the supply of the consumer goods to a consumer, representative samples of the consumer goods must meet the test set out in section 6.4 of the Lithium Technologies Standard.		N
12	Test requirements of Cl.8 For product-specific	standards:	N



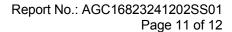


	Test report		
Clause	Requirement – Test	Result - Remark	Verdict
	(1) Consumer goods containing a button/coin battery subsection if	comply with the requirements in this	N
	a) before the supply of the consumer goods to a consumer, representative samples of the consumer goods are tested in accordance with one of the following:		N
	(i) clauses 4.8.4.2 to 4.8.4.6 of the Australian (Audio/Video) Standard		N
	(ii) clauses 4.8.4.2 to 4.8.4.6 of the International (Audio/Video) Standard		N
	(iii) clause 5.24 of the Australian (Safety of Toys) Standard		N
	(iv) clause 5.24 of the International (Safety of Toys) Standard		N
	(v) clauses 12.7.3.2 to 12.7.3.6 of the Electronic Apparatus Standard		N
	(vi) clause 4.101.1 of the Luminaires Standard; and		N
	(b) the button/coin batteries contained in the samples are not released during the testing.		N
	(2) If consumer goods cannot comply with subsection clause of a standard in the subsection is not appropriate the consumer goods are taken to comply with that sul	ate for that kind of consumer goods,	N
	(a) an alternative test that is more appropriate is applied; and		N
	(b) before the supply of the consumer goods to a consumer, representative samples of the consumer goods are tested in accordance with that alternative test; and		N
	(c) applying that alternative test (along with the other tests of the standard that apply and are appropriate) ensures that the battery is not released during reasonably foreseeable use or misuse conditions.		N
13	Test requirements of CI.9 For Audio/Video and Electronic Apparatus Standards		Ν
	(1) Consumer goods containing a button/coin battery comply with the requirements in this subsection if the consumer goods comply with the requirements in subsections (2) and (3)		N
	(2) The consumer goods comply with the requirement goods comply with any of the following before the sup consumer:		N
	(a) clause 4.8.3 of the Australian (Audio/Video) Standard;		N



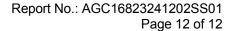


		Test repor	t	
Clause	Requirement – Test		Result - Remark	Verdict
	(b) clause 4.8.3 of the Ir Standard	nternational (Audio/Video)		N
	(c) clause 12.7.2 of the Standard.	Electronic Apparatus		N
	(3) The consumer goods comply with the requirements in this subsection if the consumer goods comply with an item of the following table before the supply of the consumer goods to a consumer:			N
	Representative samples	samples, after that testing		N
	clauses 4.8.4.2 to 4.8.4.6 of the Australian (Audio/Video) Standard	clause 4.8.5 of the Australian (Audio/Video) Standard.		
	clauses 4.8.4.2 to 4.8.4.6 of the International (Audio/Video) Standard	clause 4.8.5 of the International (Audio/Video) Standard		
	clauses 12.7.3.2 to 12.7.3.6 of the Electronic Apparatus Standard	clause 12.7.4 of the Electronic Apparatus Standard		
	(4) Subsection (5) applie cannot comply with substitute table in subsection (5 specified clause of a starthe item is not appropriationsumer goods.	section (2) or an item of B) because a test in a andard in the subsection or		N
	(5) The consumer good	s are taken to comply with	the subsection or item if:	N
	(a) an alternative test th applied; and	at is more appropriate is		N
	(b) before the supply of consumer, representativ consumer goods are tes that alternative test; and			N
	(c) applying that alternate other tests of the standar appropriate) ensures the the battery is held is resi young children.	rd that apply and are		N
14	Test requirements of CI.9 For Luminaires Standard			N
	(1) Consumer goods containing a button/coin battery comply with the requirements in this subsection if:			N
	(a) before the supply of consumer, representativ consumer goods are tes clause 4.101.1 of the Lui	ted in accordance with		N
	(b) those samples, afte compliant with:	r that testing, are		N





		Test repor	t	
Clause	Requirement – Test		Result - Remark	Verdict
	(i) clause 4.101.1 of the and	Luminaires Standard;		N
	(ii) clause 4.101.2 of the applicable)	Luminaires Standard (if		N
	(2) If consumer goods ca subsection (1) because a clause of the Luminaires appropriate for that kind of consumer goods are take subsection if:	stest in a specified Standard is not of consumer goods, the		N
	(a) an alternative test that applied; and	at is more appropriate is		N
	(b) before the supply of consumer, representative consumer goods are test that alternative test; and			N
	(c) applying that alterna other tests of the Lumina apply and are appropriate compartment in which the resistant to being opened	ires Standard which e) ensures the e battery is held is		N
15	Test requirements of C	I.9 For Safety of Toys Sta	andards	N
	(1) Consumer goods containing a button/coin battery comply with the requirements in this subsection if the consumer goods comply with an item of the following table before the supply of the consumer goods to a consumer.			N
	Representative samples	samples, after that testing		N
	clause 5.24 of the Australian (Safety of Toys) Standard	a) clause 13.4.1 or 13.4.2 of the Australian (Electric Toys) Standard (whichever is applicable); and b) clause 13.4.6 of the Australian (Electric Toys) Standard (if		
	clause 5.24 of the International (Safety of Toys) Standar	applicable) (a) clause 13.4.1 or 13.4.2 of the International (Electric Toys) Standard (whichever is		
		applicable); and (b) clause 13.4.6 of the International (Electric Toys) Standard (if applicable)		





	Test repor	t	
Clause	Requirement – Test	Result - Remark	Verdict
	(2) If consumer goods cannot comply with an item of the table in subsection (1) because a test in a specified clause of a standard in the item is not appropriate for that kind of consumer goods, the consumer goods are taken to comply with the item if:		N
	(a) an alternative test that is more appropriate is applied; and		N
	(b) before the supply of the consumer goods to a consumer, representative samples of the consumer goods are tested in accordance with that alternative test; and		N
	(c) applying that alternative test (along with the other tests of the standard that apply and are appropriate) ensures the compartment in which the battery is held is resistant to being opened by young children.		N
16	Test requirements of Cl.8 For non-product-spe	cific standards	Р
	Consumer goods containing a button/coin battery comply with the requirements in this section if:		Р
	(a) before the supply of the consumer goods to a consumer, representative samples of the consumer goods are tested in accordance with sections 6.3.2 to 6.3.4 of the Lithium Technologies Standard; and		Р
	(b) the button/coin batteries contained in the samples are not released during the testing.		Р
17	Test requirements of Cl.9 For non-product-spe	Р	
	Consumer goods containing a button/coin battery comply with the requirements in this section if:		Р
	(a) the consumer goods comply with section 6.2 of the Lithium Technologies Standard; and		Р
	(b) both of the following occur:		Р
	(i) before the supply of the consumer goods to a consumer, representative samples of the consumer goods are tested in accordance with sections 6.3.2 to 6.3.4 of the Lithium Technologies Standard;		Р
	(ii) those samples, after that testing, are compliant with section 6.3.5 of the Lithium Technologies Standard.		Р

----END OF REPORT-----



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- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
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- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.