

Prüfbericht-Nr.: <i>Test report no.:</i>	60443530-001	Auftrags-Nr.: <i>Order no.:</i>	21-0083	Seite 1 von 8 Page 1 of 8
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	23870529	Auftragsdatum: <i>Order date:</i>	06-04-2021	
Auftraggeber: <i>Client:</i>				
Prüfgegenstand: <i>Test item:</i>	Strips Multisensor MS-V			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	13 04 001			
Auftrags-Inhalt: <i>Order content:</i>	Certification by Similiarity according LoRaWAN™ Specification V1.0.2 for EU 863-870 Band			
Prüfgrundlage: <i>Test specification:</i>	EU863-870 MHz ISM Band Devices Version 1.6			
Wareneingangsdatum: <i>Date of sample receipt:</i>	06-04-2021			
Prüfmuster-Nr.: <i>Test sample no.:</i>	N/A			
Prüfzeitraum: <i>Testing period:</i>	26-05-2021 – 27-05-2021			
Ort der Prüfung: <i>Place of testing:</i>	Lund, Sweden			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Sweden			
Prüfresultat*: <i>Test result*:</i>	PASS			
geprüft von: <i>tested by:</i>				

 Recoverable Signature
X 

Signed by: Kaushendra Tripathi

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Revisions <i>Revisions</i>			
Revision Revision	Datum Date	Anmerkung Remark	Verfasser Author
0	01-04-2021	Original Report	JE
1	27-05-2021	Dsign	JE

Note: Latest revision report will replace all previous reports

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1 PRODUCT INFORMATION

The device under test (DUT) is for LoRaWAN 1.0.2 Certification testing by similarity.

General information	
Product name:	Strips Multisensor MS-V
Model:	13 04 001
Description:	Vibration sensor for detecting movements of object.
Manufacturer SKU	Sensitive
Hardware version:	P1.6
Firmware version:	1.2
Contact person:	Lars Jonsson
Phone number:	+46 70 302 3767

LoRaWAN information	
Type of DUT	End Device
LoRa Device Class	A
Geographical area of operation	Europe 868 MHz
Operating frequency	EU 863 - 870 MHz
Adaptive Data Rate (ADR) supported?	True
Optional data rates supported?	DR6
Activation possibilities	Over the air
Test According LoRaWAN™ Spec	V1.0.2 (with regional parameters V1.0.2 ref.B)
Output Power	+12 dBm
Number / Type of Antenna(s)	1
Antenna Gain	+2.3dBi
Test sample information	N/A

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For OTA activation:	
Serial No of Device with OTAA	-
End-device identifier (DevEUI)	-
Application identifier (AppEUI)	-
Application key (AppKey)	-

Submitted Documents:

CertificationBySimilarityDeclaration
LoRaCertificationQuestionnaire
Strips Sensor family for LoRa
Photo
Strips Multisensor test report by similarity
Reference device test report
Reference device

2 GENERAL DEVICE DESCRIPTION

Vibration sensor for detecting movements of object.
Model number: 13 04 001

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3 SIMILIARITY OVERVIEW

Strips Multisensor MS-H is a certified LoRaWan device according to LoRaWAN™ Specification V1.0.2 for EU 863-870 Band

Strips Multisensor MS-V uses the same PCB as certified device Strips Multisensor MS-H

- LoRa transceiver same as Strips MS-H
- LoRa protocol SW version same as Strips MS-H
- MCU Core same as Strips MS-H
- Clock design and implementation same as Strips MS-H
- The implemented software won't affect the certificated product Strips MS-WL LoRaWAN behaviour.

4 SIMILIARITY CASE

Pre-requisite		
A similar device (from same manufacturer or module from different manufacturer) has already been certified.	Document review executed	
	Device listed:	<input checked="" type="checkbox"/> Yes No
	Comment: Strips Multisensor MS-H from Sensative	

Change descriptions – general overview		
Case 1	Module Integration: the Variant device to be certified embeds a LoRa certified module.	Applicable: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Comment:
Case 2	Module Family: the Variant device to be certified is a Module from the same family of a LoRa certified module.	Applicable: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Comment:
Case 3	Device Certification by similarity: the Variant device to be certified uses the same Module of an already LoRa certified device.	Applicable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Comment: Vibration sensor for detecting movements of object.

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5 PHOTO DOCUMENTATION



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END OF REPORT