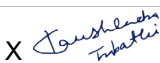


<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>60440652-001</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	<b>21-0083</b>	Seite 1 von 8 <i>Page 1 of 8</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	<b>23870529</b>	<b>Auftragsdatum:</b> <i>Order date:</i>	<b>10-03-2021</b>	
<b>Auftraggeber:</b> <i>Client:</i>				
<b>Prüfgegenstand:</b> <i>Test item:</i>	Strips Multisensor MS-V			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	13 04 002			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Test of Conformance to LoRaWAN™ Specification V1.0.2 for US902-928 Band by similarity			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	LoRa End Device Certification US902-928 Version 1.5.1			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	10-03-2021			
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	N/A			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	09-04-2021 – 09-04-2021			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Lund, Sweden			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland Sweden			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	PASS			

**geprüft von:**  
*tested by:*

X   
\_\_\_\_\_

Signed by: Kaushendra Tripathi

Prüfbericht-Nr.:  
Test Report No.: **60440652-001**

Seite 2 von  
Page 2 of 8

<b>Revisions</b> <i>Revisions</i>			
<b>Revision</b> Revision	<b>Datum</b> Date	<b>Anmerkung</b> Remark	<b>Verfasser</b> Author
0	01-04-2021	Original Report	JE
1	09-04-2021	Dsign	JE

Note: Latest revision report will replace all previous reports

## Table of contents

1	Product Information.....	4
	Submitted Documents:.....	5
2	General device description.....	6
3	Similarity overview.....	7
4	Similarity case .....	7
5	PHOTO DOCUMENTATION.....	8

Prüfbericht-Nr.:  
Test Report No.: **60440652-001**

Seite 4 von  
Page 4 of 8

## 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 04 002 (US902-928)
Description:	Vibration sensor for detecting movements of object
Manufacturer SKU	Sensitive
Hardware version:	p1.1
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	USA 902-928 common region
Operating frequency	915 MHz
Adaptive Data Rate (ADR) supported?	True
Activation possibilities	Over the air
Test According LoRaWAN™ Spec	V1.0.2
Output Power	14 dBm
Number / Type of Antenna(s)	1
Antenna Gain	+2.3dBi
Test sample information	Production unit

<b>For OTA activation:</b>	
Serial No of Device with OTAA	-

Prüfbericht-Nr.:  
Test Report No.: **60440652-001**

Seite 5 von  
Page 5 of 8

End-device identifier (DevEUI)	-
Application identifier (AppEUI)	-
Application key (AppKey)	-

### Submitted Documents:

CertificationBySimilarityDeclaration  
LoRaCertificationQuestionnaire  
Strips Sensor family for LoRa  
Photo  
Strips Multisensor MS-V test report by similarity  
Strips Multisensor MS-WL test report

## 2 GENERAL DEVICE DESCRIPTION

Vibration sensor for detecting movements of object, named Comfort.

Prüfbericht-Nr.:  
Test Report No.: **60440652-001**

Seite 6 von  
Page 6 of 8

### 3 SIMILIARITY OVERVIEW

Strips Multisensor MS-WL is a certified LoRaWan device according to LoRaWAN™ Specification V1.0.2 for US902-928 Band.

Strips Multisensor MS-V uses the same PCB design as certified device Strips Multisensor MS-WL but with Indoor Vibration sensor for detecting movements of object.

- LoRa transceiver same as Strips MS-WL
- LoRa protocol SW version same as Strips MS-WL
- MCU Core same as Strips MS-WL
- Clock design and implementation same as Strips MS-WL
- 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 <input type="checkbox"/> No
	Comment: Strips Multisensor MS-WL 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: This version have vibration sensor for detecting movements of object.

Prüfbericht-Nr.:  
Test Report No.: **60440652-001**

Seite 7 von  
Page 7 of 8

## 5 PHOTO DOCUMENTATION



Prüfbericht-Nr.:  
Test Report No.: **60440652-001**

Seite 8 von  
*Page 8 of 8*

**END OF REPORT**