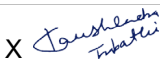


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Kunden-Referenz-Nr.: <i>Client reference no.:</i>	23870529	Auftragsdatum: <i>Order date:</i>	10-03-2021	
Auftraggeber: <i>Client:</i>				
Prüfgegenstand: <i>Test item:</i>	Strips Multisensor MS-PV			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	13 05 002			
Auftrags-Inhalt: <i>Order content:</i>	Test of Conformance to LoRaWAN™ Specification V1.0.2 for US902-928 Band by similarity			
Prüfgrundlage: <i>Test specification:</i>	LoRa End Device Certification US902-928 Version 1.5.1			
Wareneingangsdatum: <i>Date of sample receipt:</i>	10-03-2021			
Prüfmuster-Nr.: <i>Test sample no.:</i>	N/A			
Prüfzeitraum: <i>Testing period:</i>	09-04-2021 – 09-04-2021			
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:
tested by:

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	09-04-2021	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-PV
Model:	13 05 002 (US902-928)
Description:	Active IR LED sensor for presence detection, combined with vibration sensor.
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

For OTA activation:	
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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 MS-PV test report by similarity
Strips Multisensor MS-WL test report

2 GENERAL DEVICE DESCRIPTION

Active IR LED sensor for presence detection, combined with vibration sensor.

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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-PV uses the same PCB design as certified device Strips Multisensor MS-WL but with active IR LED sensor for presence detection, combined with vibration sensor.

- 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 Active IR LED sensor for presence detection, combined with vibration sensor.

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5 PHOTO DOCUMENTATION



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END OF REPORT