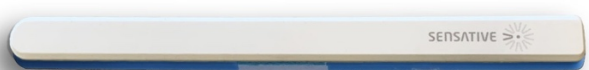


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<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	<b>23870529</b>	<b>Auftragsdatum:</b> <i>Order date:</i>	<b>10-03-2021</b>		
<b>Auftraggeber:</b> <i>Client:</i>	Sensitive AB Mobilvägen 1 223 62 Lund Sweden	Lars Jonsson Lars.jonsson@sensitive.com +46 70 302 3767			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Strips Multisensor MS				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	13 00 002				
<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>	03-10-2021				
<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				
<b>geprüft von:</b> <i>tested by:</i>	<u>X</u>	<b>genehmigt von:</b> <i>authorized by:</i>	<u>X</u>		
<b>Datum:</b> <i>Date:</i>	12-04-2021	<b>Datum:</b> <i>Date:</i>	12-04-2021		
<b>Stellung / Position:</b>	Test Engineer	<b>Stellung / Position:</b>			
<b>Sonstiges / Other:</b>					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet	5 = mangelhaft N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested	5 = poor N/T = not tested
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

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<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

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## 1 PRODUCT INFORMATION

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

General information	
Product name:	Strips Multisensor MS
Model:	13 00 002 (US902-928)
Description:	Multi sensor with magnetic contact sensor, temperature, ambient light and capacitive sensors. Ultra-thin design virtually disappears into the architecture of any room, building, or landscape. Built in battery with up to 10 years lifetime, dependent on configuration. Includes mounting plates for attaching to rough surfaces and adhesive backing for easy application.
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

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Test sample information

Production unit

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 MS test report by similarity  
Strips Multisensor MS-WL test report

## 2 GENERAL DEVICE DESCRIPTION

Multi sensor with magnetic contact sensor, temperature, ambient light and capacitive sensors.  
Ultra-thin design virtually disappears into the architecture of any room, building, or landscape  
Built in battery with up to 10 years lifetime, dependent on configuration.  
Includes mounting plates for attaching to rough surfaces and adhesive backing for easy application.

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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 uses the same PCB design as certified device Strips Multisensor MS-WL but with magnetic contact sensor, temperature, ambient light and capacitive sensors.

- 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 magnetic contact sensor, temperature, ambient light and capacitive sensors.

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## 5 PHOTO DOCUMENTATION



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**END OF REPORT**