



The Testcenter facility 'LoRa® Test Lab' within IMST GmbH is recognized by the LoRa® Alliance for testing in accordance to the LoRaWAN® Specification V1.0.4

# Testreport for Certification by Similarity according to LoRaWAN® (V1.0.4 US915)

for the Device

"TX T&H AMB 600-121"

for the Customer

"Enless Wireless"

Jens Lerner Yavuz Turan

22<sup>nd</sup> May, 2024

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# **Administrative Summary**

Location: IMST GmbH, Test Centre, Kamp-Lintfort, Germany

Responsible Test Engineer: Yavuz Turan, Jens Lerner

Subject: Test of Conformance to LoRaWAN® Specification V1.0.4 (US915)

Company and Contact Information:

**Enless Wireless** 

Théo Benissan

6bis rue du Temple

33000 Bordeaux

France

Checked Device: TX T&H AMB 600-121

<u>Hardware version:</u> Rev 3.00 <u>Firmware version:</u> V2.02.01

<u>Type and Version of used Stack:</u> Own, 02 Version <u>Original End-device identifier:</u> TX TEMP INS 600-131

LoRa Device Class: A

LoRaWAN Specification version: V1.0.4

Certification requirements: LoRaWAN 1.0.4 End Device Certification Requirements V1.6.1

<u>Frequency band(s):</u> 915 MHz <u>Test Equipment:</u> LCTT v3.12.0\_R1 Type of Certification by Similarity:

Case 2: Certification of an end-device variant from a certified end-device

Variant device differences to the referenced certified device:

- Same LoRa transceiver
- Same LoRaWAN protocol SW version
- Same MCU Core
- Same Clock design and implementation

Brief description of the differences between the primary and the variant device

TX T&H AMB 600-121 is an ambient transmitter with different enclosure than TX TEMP INS 600-131. It can also measure humidity.

Date: 22<sup>nd</sup> May, 2024

The Test Report, No. 6240270 has the following conclusion:

The device fulfils the requirements.

Responsibility:

Tam Approved: NW

Yavuz Turan

Jens Lerner

Test Engineer

**Quality Engineer** 

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### Applied Methods of Measurement

# 1.1 Protocol Testing according to LoRaWAN® specification V1.0.4 (Class A device for US915)

## Certification By Similarity Test Results By the Manufacturer:

Join tests with various parameters: PASS

Device Status Request: **PASS**New Channel Request: **PASS**DI Channel Request: **PASS** 

RX Parameter Setup Request: **PASS** RX Timing Setup Request: **PASS** TX Parameter Setup Request: **PASS** 

Link ADR Request: PASS

# **Supported Optional Features:**

Adaptive Data Rate (ADR) Yes SF7BW250 (DR6) Yes FSK50 (DR7) No

# Additional Tests By The Manufacturer:

Retransmission Back-Off for OTA devices only: PASS

Remarks: None

Result: The device passed the test without limitations.



