



The Testcenter facility 'LoRa® Test Lab' within IMST GmbH is recognized by the LoRa® Alliance for testing in accordance to the LoRaWAN® Specification V1.0.2

Report for Certification by Similarity according to LoRaWAN® V1.0.2

for the Device

“ElectoSonic“

for the Customer

“Maddalena S.p.A.”

Jens Lerner
Yavuz Turan

18th October, 2022

Administrative Summary

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

Responsible Test Engineer: Yavuz Turan, Jens Lerner

Subject: Test of Conformance to LoRaWAN® Specification V1.0.2

Company and Contact Information:

Maddalena S.p.A.

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33040 Povoletto

Italy

Checked Device: ElectroSonic

Hardware version: 1.0

Firmware version: 1.0

Type and Version of used Stack: Stackforce 4.4.4 Version

Original End-device identifier: Arrow WAN 2

LoRa Device Class: A

LoRaWAN Specification version: V1.0.2

Certification requirements: LoRa End Device Certification by Similarity V1.1

Frequency band(s): 868 MHz

Type of Certification by Similarity:

Case 3: 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


The devices share the same LoRaWAN SoC and related implementation, with the same inter-connection to the internal application part (which differs in the sensor part, in the ArrowWan2 case it is an inductive sensor, in ElectroSonic an ultrasonic sensor with LCD display.

Date: 18th October, 2022

The Test Report, No. 6220484 has the following conclusion:

The device fulfils the requirements.

Responsibility: 
Yavuz Turan
Test Engineer

Approved: 
Jens Lerner
Quality Engineer

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