



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

**“AK-411 Remote Reading And Pre-
paid Ultrasonic Water Meter “**

for the Customer

**“Baylan Ölçü Aletleri Sanayi
ve Ticaret Ltd. Şti. “**

Jens Lerner
Yavuz Turan

19th March, 2021

Administrative Summary

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

Responsible Test Engineer: Yavuz Turan, Jens Lerner

Subject: Test of requirements for Certification by Similarity according to LoRaWAN™ Specification V1.0.2

Company and Contact Information:

Baylan Ölçü Aletleri Sanayi ve Ticaret Ltd. Şti.

Erman BAYLAN

10032. Sk. Atatürk Organize Sanayi Bölgesi No:16

35620 Çiğli/İzmir

Turkey

Checked Device: AK-411 Remote Reading And Prepaid Ultrasonic Water Meter

Firmware version: V21/20

Hardware version: 170403LUKS0102

Type and Version of used Stack: own

Original End-device identifier: AK-311 Remote Reading And Prepaid Water Meter

LoRa Device Class: A

LoRaWAN Specification version: V1.0.2

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

Frequency band(s): 863-870 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 LoRa protocol SW version
- Same MCU Core
- Same Clock design and implementation


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


Unlike AK-311, AK-411 uses ultrasonic sensor to measure water consumption.

Date: 19th March, 2021

The Test Report, No. 6210240 has the following conclusion:

The device fulfils the requirements.

Responsibility: 
Yavuz Turan
Test Engineer

Approved: 
Jens Lerner
Quality Engineer

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