The Testcenter facility ‘LoRa® Test Lab’ within IMST GmbH is recognized by the LoRa™ Alliance for testing in accordance to the LoRaWAN™ Specification V1.0.1.

Report for Test of Conformance to LoRaWAN™ V1.0.1

for the Device

“Myfox Home Alarm ”

for the Customer

Myfox sas

Markus Ridder
Yavuz Turan

**Administrative Summary**

**Location:** IMST GmbH, Test Centre, Kamp-Lintfort, Germany  
**Responsible Test Engineer:** Yavuz Turan, Markus Ridder

**Subject:** Test of Conformance to LoRaWAN™ Specification V1.0.1

**Company and Contact Information:**  
Myfox sas, Mr. David Guinehut  
2460 rue l’occitane, Regent Park II, Bat 1, 31670 Labège

**Tested Device:** Myfox Home Alarm  
**Firmware version:** V1.7.0  
**Hardware version:** V0.2.4  
**End-device identifier:** 887766554332211  
**LoRa Device Class:** A  
**LoRaWAN Specification version:** V1.0.1  
**Certification requirements:** LoRa End Device Certification EU Version 1.2  
**Frequency band(s) tested:** 868 MHz  
**Test Equipment:**  
- Test Software Version: 1.1.7  
- Semtech IOT SX1301 Starter Kit: Gateway software version 3.1.0  
- Packet forwarder software version 2.1.0

**Test Result:** PASS

**Chief Test Engineer:** Markus Ridder  
**Dept. Test Center**

**Date:** July 22th, 2016

The Test Report, No. 6160296 has the following conclusion:

The device has PASSED the tests hereunder.

Responsibility:  
Yavuz Turan  
Test Engineer

Approved:  
Markus Ridder  
Quality Engineer

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1 Description of the Device Under Test (DUT)

1.1 General

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Myfox Home Alarm</td>
</tr>
<tr>
<td>Kind of product</td>
<td>Module</td>
</tr>
<tr>
<td>Series (if any)</td>
<td></td>
</tr>
<tr>
<td>Hardware Version</td>
<td>V0.2.4</td>
</tr>
<tr>
<td>Firmware Version</td>
<td>V1.7.0</td>
</tr>
<tr>
<td>Type of DUT</td>
<td>☑ Module / End Device</td>
</tr>
<tr>
<td>Geographical area of operation</td>
<td>☑ Europe ☐ USA</td>
</tr>
<tr>
<td>Operating frequency</td>
<td>☑ 433 MHz ☑ 868 MHz ☐ 915 MHz</td>
</tr>
<tr>
<td>Adaptive Data Rate (ADR) supported?</td>
<td>☑ Yes ☐ No</td>
</tr>
<tr>
<td>Optional data rates supported?</td>
<td>☑ DR6 ☑ DR7</td>
</tr>
<tr>
<td>Activation possibilities</td>
<td>☑ Over the air ☑ by personalization ☑ both</td>
</tr>
<tr>
<td>Test According LoRaWAN™ Spec</td>
<td>☑ V1.0 ☑ V1.0.1 (m/o June 2016 earliest)</td>
</tr>
<tr>
<td>Output Power</td>
<td>14 dBm</td>
</tr>
<tr>
<td>Number / Type of Antenna(s)</td>
<td>1 helical</td>
</tr>
<tr>
<td>Antenna Gain</td>
<td></td>
</tr>
</tbody>
</table>

Table 1 Device Information

1.2 DUT Modes of Operation

During the tests the device operated in the following modes:

- Test mode according to document “LoRa End Device Certification EU V1_2” Chapter 3.

1.3 DUT Setup

Figure 1 DUT Setup
Applied Methods of Measurement

1.4 Protocol Testing according to LoRaWAN™ specification V1.0.1

Detailed Test Results:

Test Mode Activation (Activation by Personalization): **PASS**
Test Mode Activation (Over the Air Activation): **PASS**
Test Application Functionality: **PASS**
Packet Error Rate RX2 SF12: **PASS**
Cryptography: **PASS**
Downlink Window Timing: **PASS**
Frame Sequence Number: **PASS**
Device Status Request: **PASS**
Mac Commands: **PASS**
New Channel Request: **PASS**
Confirmed packets: **PASS**
RX Parameter Setup Request: **PASS**
RX Timing Setup Request: **PASS**
Link ADR Request: **PASS**
Packet Error Rate RX1 Window: **PASS**
Packet Error Rate RX2 Window: **PASS**

Supported Optional Features:

Adaptive Data Rate (ADR): Yes
DR6 (SF7BW250): Yes
DR7 (FSK50): Yes

Remarks: None.

Result: The device passed the test without limitations.