ATIM Cloud Wireless
Sigfox Tester
TST
Quick Installation Guide

Concerned model:

ACW/SF8-TST

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ATIM_ACW-SF8-TST_QIG_EN_V1.4

Technical specifications

Dimensions	90 x 45 x 15 mm
Radio frequency	868 MHz
RF Power	25 mW ≡ 14 dBm
Easy to use	1 key button + 1 multi-colour LED
Internal Voltage	3,6Vcc (LiPo battery 325mAh)
Battery charger	Via micro-USB cable
Weight	30g
Consumption	Sigfox
Mode Tx	50 mA$_{max}$ during 6s
Sleep	2 µA$_{typ}$

Operating mode

a. Prior registration

The tester must be commissioned beforehand on the Sigfox backend (subscription in addition to the ACW/SF8-TST) thanks to the IDs shared at shipment with the device.

Sigfox's subscription must have downlinks option included.

b. Join process

To realize the "Join" between the tester and the Sigfox backend, the below steps must be followed:

1. Plug the USB cable on the tester to a power supply.
2. Unplug the USB cable on the tester.
3. Step #2 forces the reinitialization of the tester and sends a Join frame.

c. Recharge

The ACW/SF8-TST is recharged by USB cable.
When the battery product is charging, a red LED is on.
This LED leds off when the charge is complete.

d. Coverage test

To realize a network coverage test, the below steps should be followed:

1. The tester must be held vertically **and** from the bottom part (refer to the adjacent picture).

2. Press the pushbutton.

3. Wait 40 seconds (Downlink maximum response time from the Sigfox network) until the response of the Sigfox station.

4. LED blinks and shows the reception quality of the Sigfox signal in function of the displayed colour (refer to the below scheme)

Note
In case of "static" applications (devices' locations are fixed), it is important to test the exact location where the sensor will be installed.
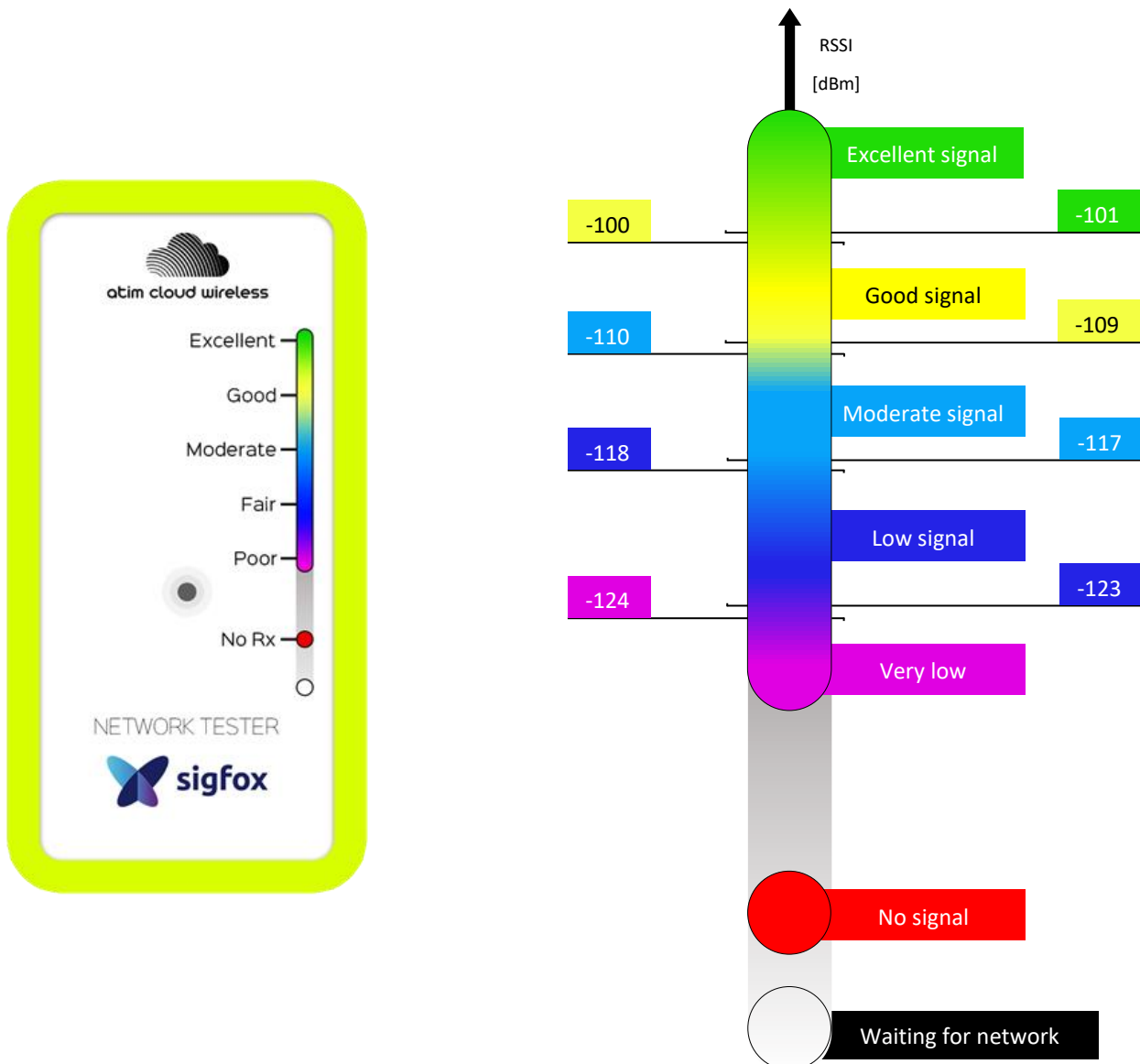
Scheme 1: Interpretation of the network reception quality

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e. How to get precise data on the ATIM Cloud Wireless Platform?

A subscription to the Atim IoT platform allows to visualize the precise quality of radio levels, provided by the network:

- RSSI (signal level of reception)
- SNR (ratio signal/noise)

The platform is compatible with all Sigfox devices.

See below an example of visualization with an ACW/SF8-TST on the ATIM IoT platform: