ATIM Cloud Wireless
LoRaWAN Tester
TST
Quick Installation Guide

Concerned model:

ACW/LW8-TST

Table of Contents

ATIM_ACW-LW8-TST_QIG_EN_V1.3

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$_{typ}$

Sigfox Network Coverage Test Zone 1

- Europe, Dom-Tom
- South Africa, Albany, Iran, Oman, Tunisia, Turkey

Configuration

- Plug and Play (No config needed)

On site and Online Modes

- Direct display of the RSSI level by the LED's color
- Archiving and visualization of RSSI and SNR levels on ATIM Cloud Wireless®

How to use the tester?

a. Prior registration

It is possible to deliver the tester is sent with a LoRaWAN + ATIM Cloud Wireless© (ACW) Platform subscriptions or exclusively the device.

In the first case, you will receive an email to set up your ACW Platform account when purchasing completed. This email allows you to log in and set your password. Check in your spams if you can not find this email. Follow the instructions.

In the second case, you will only have purchased the devices. Therefore, you would need to get a LoRaWAN subscription on your own and complete the provisioning on the LoRaWAN operator backend.

b. How to make a coverage test?

In the case of a fixed installation, it is important to test exactly where you want to install the equipment. Hold the tester vertically and without the hand (hold it on the lower part, as shown in the photo).
Press the push button and wait less than 10 seconds until the answer from the LoRaWAN operator base station (Downlink Max Response Time).
The LED should flash and indicate the level according to the color displayed (see the table below).

RSSI Interpretation Table

Excellent	Green	> -119dBm
Good	Yellow	de -120dBm à -135dBm
Moderate	Blue	≤ -136dBm
No singal	Red	No coverage
	White	Network response wait (downlink)

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

If you have taken a subscription to the ATIM IoT platform, this will allow you to view the precise radio levels: RSSI (reception level) and SNR (signal / noise ratio). The ATIM platform pools the various SIGFOX and LoRa technologies. It is therefore compatible with various LoRaWAN operators such as OBJENIOUS and ORANGE for France, as well as with private gateways.

See below an example of visualization with a tester connected with LoRaWAN operator, Objenious:

Timestamp	Delay	Data	Data ASCII	Operator	uplink Counter	RSSI	SNR	Port	Spreading Factor
2018/02/16 12:19:33	+ 1 s	53 46 3D 31 32 20 52 53 53 49 3D 2D 30 30 38 33	SF=12 RSSI=-00083	Objenious	19	-93	-5	5	12
2018/02/16 12:12:51	+ 1 s	53 46 3D 31 32 20 52 53 53 49 3D 2D 30 30 30 37 31	SF=12 RSSI=-00071	Objenious	18	-95	-1	5	12
2018/02/16 12:00:18	+ 1 s	53 46 3D 31 32 20 52 53 53 49 3D 2D 30 30 38 32	SF=12 RSSI=-00082	Objenious	17	-97	-2	5	12
2018/02/16 11:12:02	+ 1 s	53 46 3D 31 32 20 52 53 53 49 3D 2D 30 30 38 32	SF=12 RSSI=-00082	Objenious	16	-93	-6	5	12
2018/02/16 11:10:59	+ 1 s	53 46 3D 31 32 20 52 53 53 49 3D 2D 30 30 38 32	SF=12 RSSI=-00082	Objenious	15	-91	-9.2	5	12
2018/02/16 08:11:11	+ 1 s	53 46 3D 31 32 20 52 53 53 49 3D 2D 30 30 38 32	SF=12 RSSI=-00082	Objenious	11	-96	-2.5	5	12
2018/02/16 08:10:38	+ 2 s	53 46 3D 31 32 20 52 53 53 49 3D 2D 30 30 30 38 32	SF=12 RSSI=-00082	Objenious	10	-97	0.2	5	12

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