RAK10701-P Field Tester for LoRaWAN Pro

Thank you for choosing **RAK10701-P Field Tester for LoRaWAN Pro** in your awesome IoT project! 🎉 To help you get started, we have provided you with all the necessary documentation for your product.

- Quick Start Guide
- Datasheet

> ⚠️ **WARNING**
>
> The latest RAK10701 Field Tester firmware only works on the following LoRaWAN Network Servers: **Helium**, **The Things Network**, and **Chirpstack**.

> 📝 **NOTE**
>
> The source code of RAK10701⧉ is open-sourced (except the RUI3 APIs).
>
> The device has to be charged first if it comes fresh from shipping. There is a possibility that the battery was drained during its transport.

Product Description

The **RAK10701-P Field Tester for LoRaWAN** is a ready-to-use WisNode for evaluating deployed LoRaWAN network, which comes in a hard case and two different antenna types. It has a GNSS and a touchscreen LCD for the user interface, which displays the number of gateways the device can reach and other parameters like approximate distance, RSSI, and SNR. It is powered by a rechargeable battery and can be charged via USB Type-C interface.

Product Features

- Supports LoRaWAN regions: RU864, IN865, EU868, US915, AU915, KR920, & AS923-1/2/3/4
- Compatible with LoRaWAN 1.0.3
- Works with Helium Network, TheThingsNetwork, and with custom end-points with other LoRaWAN networks
- Protected by a hard case which is ideal for fieldwork
- Includes two different antenna types
- Shows the number of gateways/hotspots in the range
- Shows min and max RSSI levels
- Shows min and max distance to gateways/hotspots in range
- Compatible with WisToolBox and allows wireless configuration via BLE
- Powered by 3200 mAh battery
- Rechargeable over a USB Type-C connector
- 320x240 TFT touchscreen
- 2.3 dBi external antenna via RP-SMA connector
- Operating Temperature: -10° C ~ 60° C
- Storage Temperature: -40° C ~ 80° C

Prerequisites

To use a **RAK10701-P**, you need the following:

- To be in a coverage of a LoRaWAN gateway registered to a supported LoRaWAN Network Server.
- The LoRaWAN Gateway receiving the uplinks must have a GPS coordinates.
- RAK10701-P must registered as a device on the LoRaWAN Network Server.
- RAK10701-P must be sufficiently charged.
- RAK10701-P must have access to sky to get a GPS location fix.

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