TWB-1866

TLPWAN Wireless Break & Push
Installation & User Manual

teknim®
Fire and Security Technologies

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Rev:01

Critical Warnings

General
- ✓ Read this manual with care before operating the device and keep it for further reference.
- ✓ Comply with all warnings and measures provided in the manual. Follow all respective operation and usage instructions.
- ✓ Keep the devices away from water and humidity.

Ambient Conditions
Do not operate the device under extreme temperature conditions that fall outside the following values.
Temperature: Between -10°C and +55°C
Relative Humidity: Max. 95% RH

Service
Do not attempt to repair the device on your own, you may be exposed to electric shock in case you open the device housing.
Contact your dealer or authorized service in case of a failure. Technical interventions to the device must be carried out by qualified personel of authorized service.

Warning: Do not attempt to take the card out of its plastic protection. It is sealed solely for your safety. Users must avoid intervention.

Failures That Require Service Intervention
Contact your authorized service or dealer in case of a failure or in following cases.
- ✓ If the power line or plug is damaged,
- ✓ If any liquid has leaked or a substance has fallen into the device,
- ✓ If the device is exposed to water or rain,
- ✓ If the device is dropped or the housing is damaged,
- ✓ If there is significant performance change in the device,
- ✓ If the device is not operating normally according to the operating instructions in the user manual
Call the service since erroneous operations may cause further failures.

What You Can Do On Your Own
Do not attempt to repair the device on your own since you may be exposed to electric shock in case you open the device housing. Contact your dealer or authorized service in case of a failure. Technical interventions to the device must be carried out by qualified personel of authorized service. The device must be cleaned with a dry cloth. No chemical substances must be used for cleaning purposes.

Handling and Transportation
The device must be handled with care in manner that it does not get exposed to impacts and liquid influx. The damages that may occur during improper handling are out of guarantee.
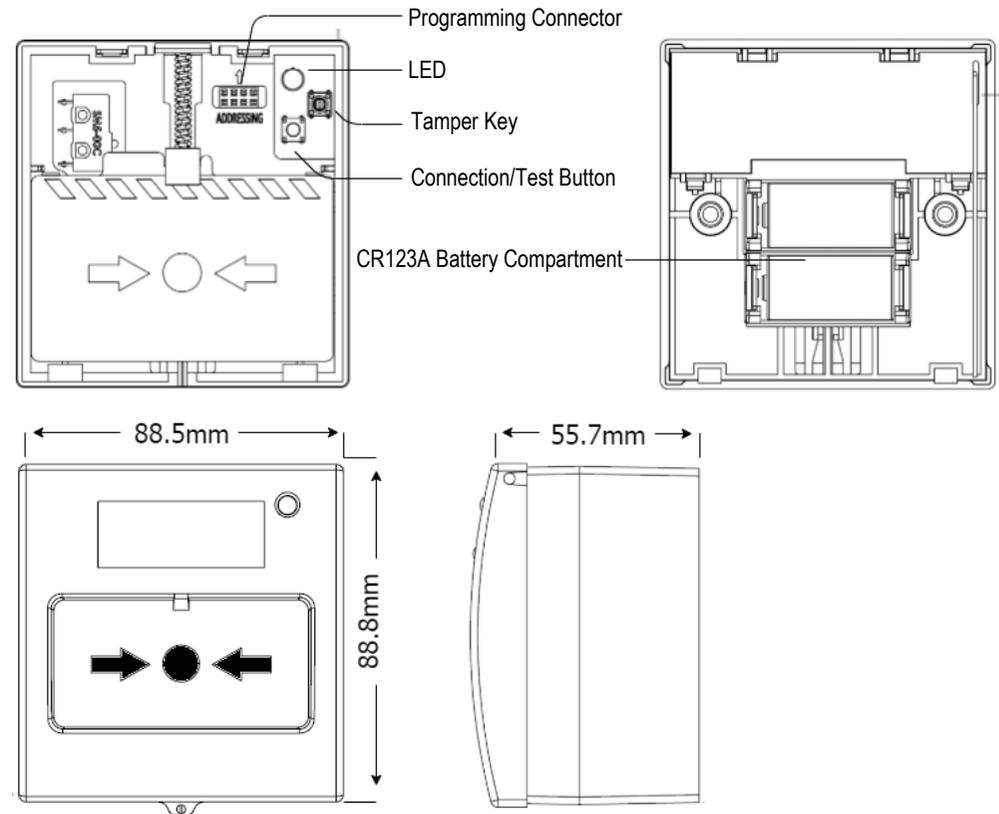
Human and Environment Health
This device does not contain any chemical or biological substance that may harm human health.

General Features
- ✓ TLPWAN low power consumption, two-way safe and stable wireless communication protocol
- ✓ Standard, low cost lithium battery
- ✓ 10 years battery life thanks to advanced communication protocol
- ✓ Re-installation feature
- ✓ Extra protection cover
- ✓ EN54-11, EN54-25

Technical Specifications

Communication Distance (via Coordinator or Router)	500 m (open area)
Operating Frequency	868 MHz
Operating Frequency Channels	10
Output Power	14 dBm (25 mW)
Average ( ) Current Consumption	15uA (@3V)
Battery	2xCR123A (3 Vdc)
Battery Life	10 years
Type of Breakable Element	A
Area of Use	Closed area (Flush mounted – Surface mounted)
Operating Temperature Range	-10°C ~ 55°C (14°F ~ 131°F)
Humidity	95% RH (max.)
Size (mm)	86x55x88 mm
Housing Material	Red Color, ABS Plastic
Weight	145 gr

Programming Connector
LED
Tamper Key
Connection/Test Button
CR123A Battery Compartment

88.5mm
88.8mm
55.7mm

Indicator LEDs

Led Signal Meaning	Led Signal Pattern
Any error situation (Tamper etc.)	Green LED blinks once in every 10 seconds
Device in normal operation mode	Green LED blinks once in every 20 seconds
Alarm mode	Red LED blinks once in every 2 seconds
Low battery warning	Orange LED blinks once in every 20 seconds
Network connection-disconnection operation	Green LED blinks twice in every 2 seconds
Result of operation	Positive, green LED lights for 3 seconds
	Negative, red LED lights for 3 seconds
Connection quality	Good connection; Green LED blinks 3 times
	Moderate connection; Green LED blinks 2 times
	Poor connection; Green LED blinks once
	No connection; Red LED blinks once

Network Connection Procedure

For a device to connect a network, such device must not be connected to any network. The connection status of a device can be found out by means of the link test. Follow the steps below for connecting the device to a network.

1. The connection permission on the coordinator or on the router must be on before the device is connected to a network. Turn on the connection permission on the coordinator or on the router.
2. Press long (for 5 seconds) on the "Connection/Link" button under the device.
3. The device will start the connection procedure automatically. This procedure takes a about 20 to 60 seconds. The green LED will blink twice every 2 seconds during the procedure.
4. At the end of the procedure, the green LED will light for 3 seconds if the connection procedure is successful, and the red LED will light for 3 seconds if the connection procedure is not successful.

Warning: Once the device is connected to the network, carry out the link test from the point where the device will operate. The system will not operate properly if there is no connection at the link test. Change the device's location in such case.

Disconnection procedure

Disconnection of the device from the network can be done both on the coordinator and on the device. Follow the steps below for disconnecting the device from a network.

1. Press long (for 5 seconds) on the "Connection/Link" button under the device.
2. The device will start the disconnection procedure automatically. The green LED will light for 3 seconds at the end of the procedure.
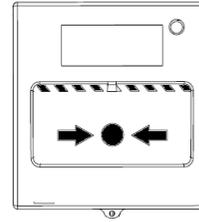
Link Test

It is possible to measure the link quality between the device and the connected coordinator or router. For this, press shortly on the button under the device. If the device is connected to a network, the LEDs will light as noted below at the end of the procedure:
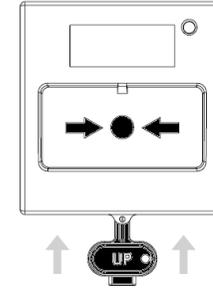
Link Quality (RSSI)	LED Signal Pattern
RSSI > -60 dBm	Good connection; Green LED blinks 3 times
-60 dBm > RSSI > -75 dBm	Moderate connection; Green LED blinks 2 times
-75 dBm > RSSI > -90 dBm	Poor connection; Green LED blinks once
-90 dBm > RSSI	No connection; Red LED blinks once

Warning: If no LED lights at the end of the Link Test, this means the device is not connected to any coordinator or router.

Alarm Test

Press the middle part of the device and take it into alarm mode. In this case, the red LED of the device will blink once in every 2 seconds.

Reset the device by using the reset key on the panel. The device must continue its regular operation again after this resetting procedure.

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21
1922-CPR-1594

EN 54-11:2001, EN 54-11:2001/A1:2005
Manual Call Points
EN 54-25:2008, EN 54-25:2008/AC:2010, EN 54-25:2008/AC:2012
Components Using Radio Links
TWB-1866
Technical data: See BİLGİ-TEC-170908 kept by the manufacturer.

Manufacturer Company and Main Service

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*In compliance with AEEE regulations. This product is manufactured from recyclable and reusable high quality parts and materials. Therefore, do not dispose of the product together with domestic or other wastes at the end of its service lifetime. Take it to a drop-off point for the recycling of electrical and electronic devices.

* Lifetime of this product specified and announced in the list attached to the After Sales Services Regulations published in the Official Gazette No 29029 dated 13/6/2014 is 5 years.

*The consumer may apply to the Consumer Arbitration Board or Consumer Court of the place of residance or of the consumer transactions in case of disputes arising from exercising the rights granted by the guarantee.