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PAL ELECTRONICS SYSTEMS WiBee System WiFi Module PAL WIBEE Bluetooth

Product Specifications

- **Input Voltage:** 12VDC / 1A
- **LEDs:** 3 LEDs for cellular reception level
- **Antenna:** Antenna for 2.4 GHz WiFi and Bluetooth
- **Network Status:** WiFi/Network Status LED
- **Relay:** N.C N.O

Product Description

The WiBee System by PAL Electronics Systems is a versatile device equipped with features for monitoring and controlling various systems. It includes LEDs for cellular reception, WiFi, and network status, as well as antennas for WiFi, Bluetooth, and remote input alert. The system operates on an input voltage of 12VDC / 1A and incorporates a relay for additional functionality.

Product Usage Instructions

LEDs Key:

- **WiFi Network LED Fast Flashing:** Indicates system booting
- **Steady WiFi LED:** Indicates unit connected to Wi-Fi
- **Signal Strength Indicator:**
  - **LED #1 ON:** Low signal
  - **LED #1 and #2 ON:** Good signal
  - **LED #1, #2, and #3 ON:** Very good signal

Typical Wiring Connections:

- **Electronic Lock:**
  - **Input Voltage:** 12VDC / 3A
  - **Maximum Load:** 2A/30VDC; 0.5A/125VAC
  - Optional Magnetic Sensor Installation for gate status notification
- **Gate:**
  - **Input Voltage:** 12VDC / 1A
  - Gate Operator Control Board
  - Optional Magnetic Sensor Installation for gate status notification

System Settings using the PalGate App:
To configure the WiBee system, download the PalGate App from the Apple App Store or Google Play. Alternatively, scan the provided QR codes for direct access. Follow the installation process by adding and confirming your cellphone number.

Product Description

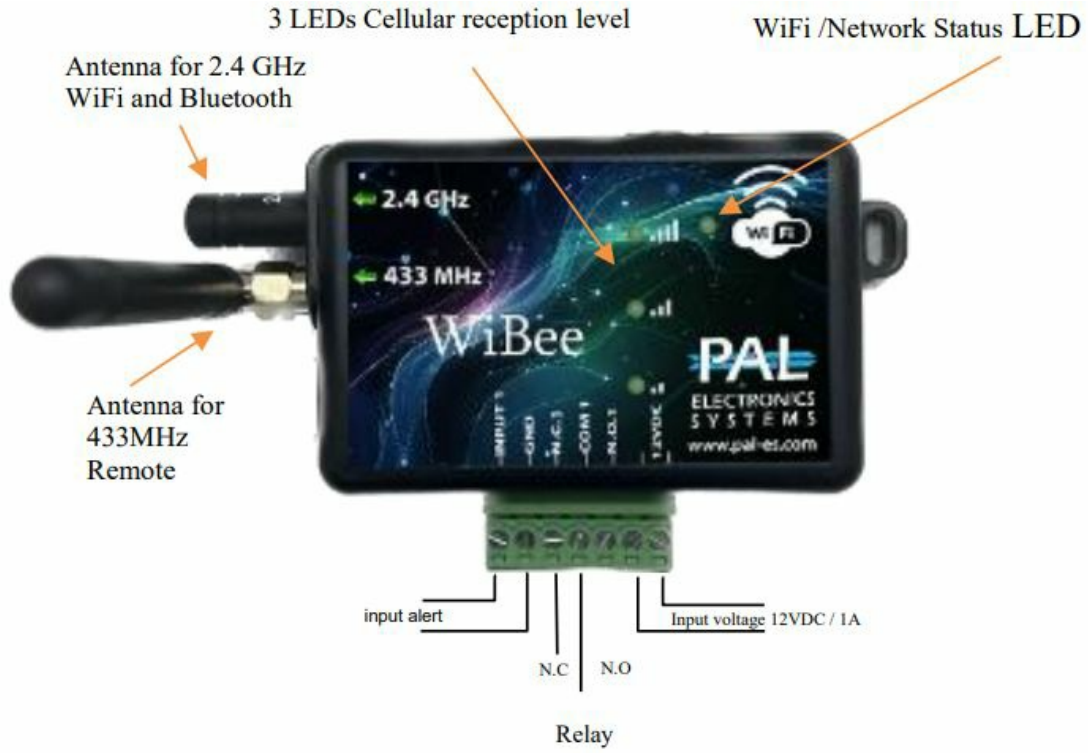
The WiBee System IoT units are WiFi, Bluetooth, and Sub-GHz Remote Control Receiver – 433MHz system, for access and management control. Throughonboardd relays, users can control the unit via either a dedicated application or an easy-to-use WEB portal. This device seamlessly integrates with electric gates, doors, lighting systems, or any other appliance that would benefit from remote control and management.

Key Benefits

- **Remote Access** – Complete and secure control of the unit anytime, and from anywhere.
- **“Nearby only” Feature –** Allows specific users to operate the unit only when in proximity.
- **Automatic opening –** PalGate App can operate the gate automatically when arriving at the gate by car This feature will work only when the PalGate App is connected to a vehicle’s multimedia system via Bluetooth.
- **Compact Size** – The unit has a small footprint, measuring just 80X53 mm.

- **Management and control** – using the “PalGate” App and an easy-to-use management WEB portal.
- **Visual Indicators –** Features 4 LED lights (1 to indicate that the WiFi is connected and 3 to indicate reception strength).
- **Customizable Access –** Ability to set up multiple administrators and authorized users for tailored access and control.
- **Real-time notifications** – Receive instant email or push notifications to the PalGate App.
- **Voice Control** – Voice-controlled operation via Siri or Google Assistant.
- **Customization –** Ability to set timers, events, astronomic clocks, and more.
- **User Management** – Easily import and export data using Excel.
- Programmable relay pulse width

WiBee – Product Features



- Control with PalGate App IOS & Android
- Manage with an App or a user-friendly WEB portal*
- The system supports unlimited users, but each unit includes 5 PalGate App users by default. Additional users can be added if needed.
- 1 output relays (N.O./N.C.)
- 1 input channels with real-time notifications to Email and push to PalGate App
- Multiple opening methods: Proximity, App, Siri, an d Google Assistant, and Remote Control.
- Supports smart remote control & Wireless vehicle detector
- Allows customization of opening distance (Nearby only or unlimited distance)
- API integration available*
- Provides unlimited logs*
- User Access Restriction by Specific Days and Hours
- Features timers and event scheduling
- Equipped with a programmable astronomical clock
- C capability to import and export data via Excel files
- Adjustable relay pulse width
- Compatible with 2.4G WiFi.
- Operates on an input voltage of 12VDC
- Co mpact dimensions: 53×80 mm
- Weight 83 gr
- P/N WB011-R

LEDs key

- **WiFi Network LED**
  - Fast Flashing: System is booting
  - When the LED is steadily on, it indicates that the unit is connected to Wi-Fi.
- **WiFi Signal Strength Indicator**
  - LED #1 ON: Low signal
  - LED #1 and #2 ON: Good signal
  - LED #1, #2, and #3 ON: Very good signal
- **Specifications:**
  - **Supply Voltage Range**: 12-24V DC

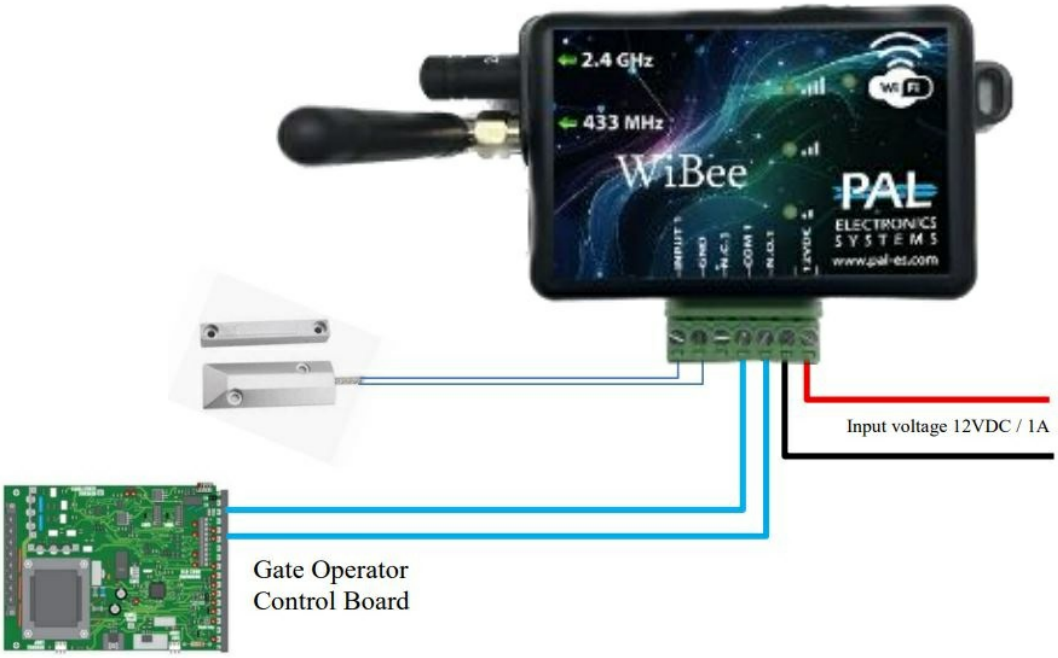
- **Average Standby current consumption:** ~40mA
- **Relay Contact Current Rating**: 1A, 30V AC/DC (Resistive)
- **Antenna:** 50Ω SMA Antenna interface
- **Temperature Range:** -20°C to +70°C (-4°F to +158°F).
- **Exterior Dimensions:** 53mm x 80 mm (2.09 in. x 3.15 in).
- **Net Weight:** 87 gr (3.07 ounces)
- **Frequency Bands:**
  IEEE 802.11b/g/n (2.4 GHz WiFi) and Bluetooth® 5 (LE)

Typical wiring connection to an Electronic Lock

Optional Magnetic Sensor – Installation allows you to receive a gate status notification.

Maximum load 2A/30VDC; 0.5A/125VAC

Optional Magnetic Sensor – Installation allows you to receive a gate's status notification.



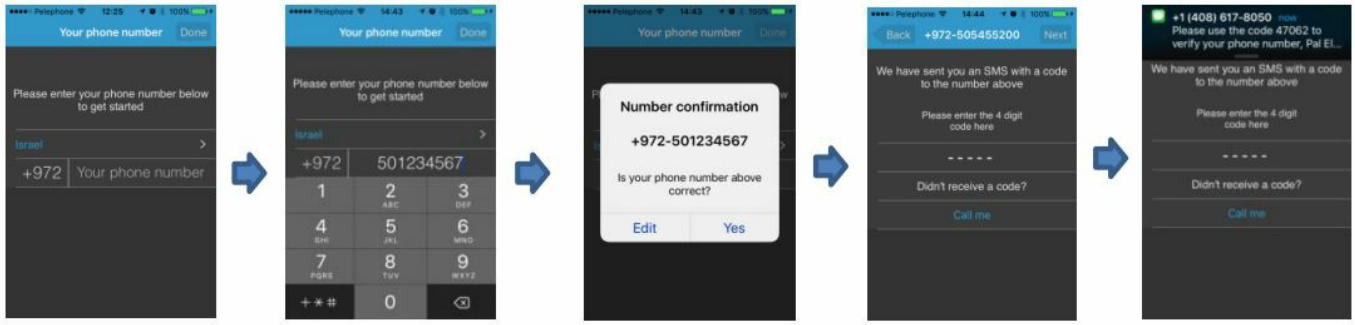
System settings using the PalGate App

You may download our App from either the Apple App Store or from Google Play by searching for the name “PalGate”. If you prefer, you can access a direct link by scanning the QR codes below:

Download on the App Store

ANDROID APP ON Google play

The PalGate App installation process



Add your cellphone number

Confirm your phone number

After adding your phone number, you will be sent a verification code

Enter the verification code.

New device setup

Click the + button to add a new device

You can scan the QRcode or add device manually

Device details -Serial number and code are printed on the device and should be added as printed

After adding the device details click next

The added gate will appear on the "My gates" screen

Add a new user

Click on the Gate Settings button

Click on Manager Options

Click on Users

Click on + to add user

Type in a name or select the new user from your contact list and click save

The new user will receive a message that he is being added and the name will appear on the list

Important Information for optimal operation:

- **Installation:** If the device will be installed in a metal cabinet, the installer must connect an external antenna to the device that will reach the outside of the cabinet.
- **Power Requirements:** The unit requires a stable power source of 12Vdc/1A.
- **Environment:** Protect the unit from excessive humidity and prevent insect infiltration.
- **Network Compatibility:** IEEE 802.11b/g/n (2.4 GHz WiFi)and Bluetooth® 5 (LE).

- **Maintenance:** Any maintenance or repairs should only be conducted by authorized installers.

ABOUT COMPANY

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FAQ

How do I know the signal strength of the WiFi network?

The signal strength is indicated by the LEDs on the WiBee system. LED #1 ON represents low signal, LED #1 and #2 ON indicate good signal, and LED #1, #2, and #3 ON signify very good signal.

Can I use the WiBee system with both electronic locks and gates?

Yes, the WiBee system supports connections to both electronic locks and gates. Ensure appropriate wiring connections and voltage requirements are met for each application.

Documents / Resources

	PAL ELECTRONICS SYSTEMS WiBee System WiFi Module PAL WIBEE Bluetooth [pdf] User Manual WiBee System WiFi Module PAL WIBEE Bluetooth, WiBee System, WiFi Module PAL WIBEE Bluetooth, Module PAL WIBEE Bluetooth, WIBEE Bluetooth

References

- User Manual

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Module PAL WIBEE Bluetooth, Pal Electronics Systems, WIBEE Bluetooth, WiBee System, WiBee System WiFi Module PAL WIBEE Bluetooth, WiFi Module PAL WIBEE Bluetooth

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