parkquility Sensor P Ground Sensor Instructions

Contents

parkquility Sensor P Ground Sensor

Product Description

Parkquility's product is a low-cost parking sensor, connecting parking spots to enable monitoring, reserving, and charging in real-time. It has many commercial parking spaces and curbside parking applications, ranging from finding, booking, and paying for parking, through connected curbside pickup for retail, to charging fleets for curbside stops in smart cities.

- Provide an accurate availability of parking spaces in real-time
- Monitor parking operations and provide automatic enforcements
- Facilitate indoor guidance to the parking spaces

The device can operate at various frequency bands. The device is designed with a PCB antenna, which can

operate in two different modes. When configured as Single Band Mode, this is ideal for 915 MHz operation. The antenna can also be configured in Dual Band Mode then the operation can also be at 915 MHz band and 2.4 GHz band.

Bluetooth LE Function Description
The Bluetooth LE is use for connection with user phone and transfer relevant data to validate the user.

Protocol	BLE 4.0
Operating Frequency Range	2402MHz to 2480MHz
Maximum Measured Power	5 dBm(1Mbps 2402MHz)
Antenna Type	Monopole PCB Antenna Dual Band Option

915MHz RF Function Description
For 915MHz RF function is used to form a sensor network and transmit data within the network.

Protocol	915 MHz
Operating Frequency Range	902.2MHz to 927MHz
Maximum Measured Power	14 dBm(50 kbps 915 MHz)
Antenna Type	Monopole PCB Antenna Dual Band Option

Installation steps: Parkquility devices are surface-mount sensor and are installed on each parking space.

1. Place the sensor on the parking space.
2. Stick the sensor on the ground with high strength industrial adhesive.
3. Use the Parkquility Setup phone application to modify parameters and calibrate the sensor using the Parkquility setup app.
4. Test the sensor by parking the car and ensuring the parking events are recorded in the Setup app.

Benefits of surface-mount sensor

1. High accuracy for car and user detection
2. Low power and maintenance provide cheaper options for data gathering and enforcement
3. Wireless communication offers real-time data updates

FCC Compliance Statement (USA)

FCC ID: 2AXL5-PQR02
Compliance Statements: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including, an interference that may cause undesired

operation.

Caution Statements:

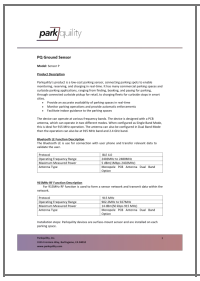
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

INFORMATION TO THE USER
For Class B digital devices, information to the user is required to include the following statements (Section 15.105):
For a Class B digital device or peripheral, the instructions furnished to the user shall include the following or similar statement, placed in a prominent location in the text of the manual:
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Parkquility, Inc.
3155 Frontera Way, Burlingame, CA 94010 **www.parkquility.com**

Documents / Resources

	**parkquility Sensor P Ground Sensor** [pdf] Instructions PQR02, 2AXL5-PQR02, 2AXL5PQR02, Sensor P Ground Sensor, Sensor P, Ground Sensor

References

- **Parkquility**