Smart Wave B01-004 Rodent Trap with BLE and LoRa User Manual

SmartWave Technologies

B01-004
User Manual
Revision 1.1

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B01-004 Rodent Trap with BLE and LoRa

NOTICE TO READERS
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PRODUCT DESCRIPTION

The B01-004 is a bait station data capture device used to detect rodents and insects that have entered the bait station and timestamp when the event occurred. The device uses a capacitive touch pad connected to capacitive touch sensor IC configured with customized filtering to provide information to the controller, which in turn uses a proprietary filtering algorithm to isolate events and detections. This information is passed to a mobile phone app, via Bluetooth, which will upload the information to a cloud server. The device is also equipped with LoRaWAN capabilities to provide direct device-to-cloud connection through a configurable heartbeat interval.

PRODUCT INSTALLATION

The B01-004 is installed in a plastic housing and sonically welded to provide complete protection from the various installation environments and rodents. A ER14505H battery must be connected to the B10-004 before installation into plastic housing

PRODUCT OPERATION

Once powered, the device will advertise for 30 seconds before going to sleep. Tapping the sensor pad a few times will wake the device up and it will again advertise for 30 seconds before going back to sleep. This operation will happen for device that are unregistered (Factory Mode).
For devices that are registered and installed in the field, the device will continually advertise every 1.5 seconds. A LoRaWAN heartbeat will also transmit periodically according to how the device is configured.

REGULATORY INFORMATION

CANADA
ISED Regulatory Statements
IC: 24934-B01004
ISED non-interference disclaimer
This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the

device.

RF Exposure statement

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.9 inches) between the radiator and any part of your body. This transmitter must not be co-
located or operating in conjunction with any other antenna or transmitter.

CAN ICES-3 (B)/NMB-3(B)

Regulatory information in the App can be accessed from the main screen
(Dashboard) by performing the following steps:

1. Access the Site Menu (upper left corner of the App screen)
2. Select “About Us” from the Site Menu
3. Tap the button labeled “Regulatory”

USA

FCC Regulator Statements

FCC: 2ASYW-B01004

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
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, and
2. this device must accept any interference received, including interference that may cause undesired operation.

   Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

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void the user’s authority to operate the equipment.

RF Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, this equipment should be installed and operated with minimum distance 20 cm (7.9 inches) between the antenna and your body during normal operation. Users must follow the specific operating instructions for satisfying RF exposure compliance.

NOTICE:

End user must include the following on the label of the end product

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Documents / Resources

	Smart Wave B01-004 Rodent Trap with BLE and LoRa [pdf] User Manual B01004, 2ASYW-B01004, 2ASYWB01004, B01-004 Rodent Trap with BLE and LoRa, B01-004, B01-004 BLE and LoRa, B01-004 Rodent Trap, Rodent Trap, Rodent, Trap, Rodent Trap with BLE and LoRa