Gravio Laser sensor user manual

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Gravio Laser Ranging sensor is a sensor product is a sensor product that uses laser technology and zigbee technology to test the distance within 80 meters. He can test the distance within 80, the accuracy can reach 1mm.It uses laser phase technology to detect distance while using zigbee to transmit the data to the gateway

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Gravio Laser ranging sensor has a concise design. It only has a led indicator and a button to complete the setting. After setting, he will continue to work for you in silent state without more operations.

Front

Side view

Button and Hidden led

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Gravio Laser ranging sensor LED indicator can display 3 states. Click the button on its body. When the LED indicator shows red for 2 seconds, it means that he has not joined any gateway. When it has joined any zigbee gateway After pressing the button, the display will be steady green for 2 seconds. When the power is turned on for the first time or in any state, the button will be pressed for 5 seconds.

Network access steps: (for example we use Gravio Receiver2)

Insert Gravio receiver into pc, mac or linux, open serial debugging tools, such as sscom

Typed hex ：00 00 03 00 00 AA （build a network）

Go on ：00 00 10 00 01 FF AA （Allow devices to connect to the network）

At this time, press and hold the button of Gravio laser ranging sensor for 5 seconds until the LED indicator flashes green

When gateway receives network access information,

reply: `00 01 11 08 08 C3 22 01 FE FF 9F FD 90 AA`

At this time, Gravio laser ranging sensor has been successfully connected to the network, and You can use it to detect the distance

send：`00 00 40 00 0c 0A B0 AF FE FF D7 6B 08 80 06 02 78 aa`

reply: `00 00 40 00 0c 0A B0 AF FE FF D7 6B 08 30 30 31 2E 39 39 39 8E aa`

as the result is 30 30 31 2e 39 39 is result，to ascii is 001.99，is 1.99 mile.

When Gravio co2 is not normal, you can press and hold the button for 5 seconds to enter the matching network access state

FCC Warning Statement

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