



User Manual

Project no.: FCC



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1 Version

Version	Date	Author	Comments
0.1	05-04-2022	Kenneth Skou Willumsen	First edition
0,2			

2 Sensor Overview

The sensor is depicted in Figure 1



Figure 1: Picture of the tracker

The sensor is equipped with a button in the top middle and a small light indicator in the lower right corner of the button. The unit is equipped with 2 "ears" for easy mounting. Mounting the sensor is simply done with 2 screws.

The sensor will be equipped with a sticker on the back containing the serial number of the device both as a number and scannable QR code, along with the FCC code. This can be seen in Figure 2.



Figure 2: Picture of the label on the device



3 Operational

From production the device is in sleep mode, and it can be enabled by a long key press. This can only be done once and after this the device is always powered on and cannot be turned off.

The device functions as a simple tracker and is operated by a single button. To avoid pushing the button by accident the button press needs to have a duration of 2 seconds.

Pressing the button for 2 seconds will make the device collect a GPS position and report it back home to a server. When this process is started the LED will blink green 5 times.

If the button is pressed for two seconds again within 2 minutes of the first button press the LED will blink red 5 times to signal it is busy. This will not initiate a new process.

4 Specifications

Primary physical specifications are listed below:

- Dimensioner (mm): 106 mm x 58 mm x 27 mm
- Product security and environmental: CE and RoHS
- Operating temperature Range: -30°C - +80°C - Industrial grade
- Battery type: Primary cell: Industrial 3,0V

5 FCC Statement

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.



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.

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

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. Refer to FCC 15.203 section

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

6 CE Compliance statement

Hereby, [Xtel Wireless ApS] declares that the radio equipment type [XT2039] is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address

<https://xtel.dk/>