

# **WS500 Wireless Vibration Temperature Smart Sensor**

## **V1.0**

## **User Manual**

Table of contents

<b>1.</b>	<b>Sensor Specifications.....</b>	<b>3</b>
<b>2.</b>	<b>Wireless sensor setup.....</b>	<b>4</b>
2.1.	Battery.....	4
2.2.	Magnetic mount holder cap.....	4
2.3.	Install wireless sensor .....	5

# 1. Sensor Specifications

Model	WS500
Vibration Range	+/-8g
Vibration Frequency Range	0-1000 Hz
Sampling Rate	3200Hz
Operating Temperature Range	-20 °C to 80 °C
Wireless Range	150m line-of-sight
Dimensions	43mm X 70mm

FCC ID: 2ARK7WS001

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

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.

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 equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## 2. Wireless Sensor Setup

The wireless sensor is delivered with a strong magnetic mount holder by default, please take extra caution during setup.

### 2.1. Battery

Unscrew the black lid, plug the battery into the big slot, and the power cable at the end of the battery into the tiny slot of the sensor. Then screw the lid back, and make sure it's screwed to the end. (Figure 1)



Figure 1 Battery setup

### 2.2. Magnetic mount holder cap

Take extra caution when removing the magnetic mount holder cap. Push the cap perpendicularly to the axis, the cap should be easily removable when it's pushed to the edge. (Figure2)



Figure 2 1.2. Magnetic mount holder cap

## 2.3. Install wireless sensor

### 2.3.1. Mount to device by magnetic mount holder

Put the edge of the magnetic holder to device gently, then mount the entire holder to device slowly. Make the side marked with X is in parallel with the underneath magnetic bar (Figure 3), and the site marked with Y is in perpendicular with the magnetic bar.



Figure 3

2.3.2. Screw the sensor to the mount pad (Figure 4).



Figure 4 Mount pad