User Manual

Name: AEROSENS WIRELESS TAG

Models: AX0WXT-00X

Revision: V2.0

User Manual Revision History

Revision	Description	Approved	Date
V1.0	Initial Release	Farid Hassani	10 Feb 2021
V2.0	Added Config 002	Reza Shibli	2 Nov 2023

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Contents

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1. Product Introduction

Overview

AEROSENS Wireless tag is a Bluetooth® 5.X low energy compliant device. It wirelessly communicates with Bluetooth® Smart Ready products. The device is capable of verifying the presence and status of emergency equipment. The cell battery can supply power for up to five years of continuous use.

After installation, the AEROSENS tag begin transmitting 2.4 GHz Bluetooth® signals, similar to WiFi. They can communicate with smartphones and other Personal Electronic Devices (PEDs)

Features

- Advertising Beacon Tag
- Bluetooth Low Energy
- Tamper Proof
- Easy to Deploy
- Long Battery Life
- Bluetooth SIG Certification

Models

- A20WST-00X (AEROSENS Wireless Security Tag)

- A10WPT-00X (AEROSENS Wireless Presence Tag)

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Applications

A20WST-00X (Wireless Security Tag) and A10WPT-00X (Wireless Presence Tag) are a key component of the AEROSENS platform, a cloud-based platform designed to maximize aircraft cabin security and increase efficiency for airlines while reducing cost.

Tamper Evident Inspection & Real-Time Monitoring

The patented AEROSENS Wireless Security Tags provide presence and the tamper status for each tagged compartment, enclosure and/or panel. It detects if the tagged compartment, enclosure and/or panel has been tampered not only on the ground but during the flight.

Inventory & Presence Check

AEROSENS Wireless Presence Tag allows to automatically collect emergency equipment data and make inspecting equipment a hands-off process. By installing the tags on cabin safety equipment, the time of pre-flight check of equipment could significantly be reduced from hours to seconds.

Information to Users

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.

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

To download the AEROSENS app for your iOS device please visit the App Store on iTunes, the App Store on your iOS device or download iTunes at https://itunes.apple.com/. For Android visit the Google Play Store at https://play.google.com/store.
In both cases, search for AeroCMS, download the app and proceed to follow the app instructions.

2. Specification

Dimensions	42 x 34.5 x 13 mm/ 1.7 x 1.4 x 0.5 in
Weight	26.5 gr/ 0.06 lbs. (battery included)
Operating Temperature	-40°C to +85°C
Transmission Power	+0 dBm to +4 dBm
Battery Model	CR2450
Operating Frequency	2.4 GHz ISM
Battery Life	Up to 6 yrs.
Read Range	Up to 50 m
Housing Material	ABS Plastic
Radio Protocol	Bluetooth Low Energy 5.X
Attachment Method	Adhesive/Cable Ties/Screws

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3. Attachment Method

High Performance Adhesive

Typically used for fixed or mobile durable equipment where you have a flat surface to apply the tag. This is a fast and easy way to affix the tag and the strong and semi-permanent adhesive can withstand cabin environment without any problems.

Should we recommend types of adhesive?

Straps/Hanging

Sometimes, you have difficulty finding a flat surface like around a flashlight or on the curve of an oxygen bottle, or even you don't need the tag to be applied permanently, which means that you want a method of attachment that will hold steady in most situations without being too easy to remove. The tag corner holes allow for simple mounting in applications where a cable tie solution is suitable. The tag can be either hung from one hole or simply strapped via two holes.

Bolts/Screws

In some cases, you might want the tag to be more permanent, then use bolts/screw attachment method. Wireless tags can have degraded performance with metal because it can detune the antenna. Thus, it's best if you use plastic bolts which can generate a stronger, easier to read signal.

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4. Contact Information

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