

## Wi-Fi Active ID Sensor

ID  
ACTIVE RF ID



### Technical Overview

#### General Description

The OEM Wi-Fi Active ID Sensor is an RFID tag for asset identification and tracking. OEM Wi-Fi sensors can be easily programmed with your Wi-Fi network's WEP or WPA(2) security via the free Wi-Fi Sensor Setup Utility (PC application) and a USB programming cable (available in the [Monnit web store](#)). User defined transmission intervals (heartbeats) and sensor threshold settings ensure that sensor data is received when needed, based on the application.

#### Features

- Manage and identify assets.
- Assign contents to an object for tracking.
- Free iMonnit basic online wireless sensor monitoring and notification system to configure sensors, view data and set alerts via SMS text and email.

(iMonnit online software is available as an OEM private / white label platform.)

#### Principle of Operation

The OEM Wi-Fi Active ID Sensor outputs an RF signal at set intervals to be received by the gateway and monitoring system. The sensor can be used as an identification tagging system for tracking purposes and can also trigger notifications via SMS text or email from the system if the sensor is within or outside of range from the wireless gateway.

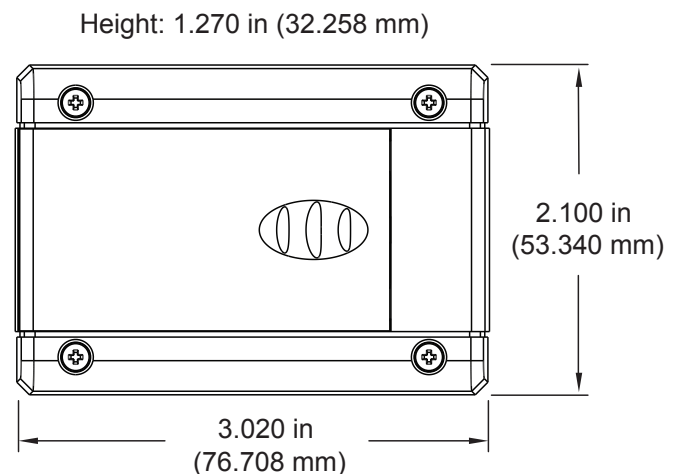
#### Applications




- Asset tracking and monitoring.
- Location tracking of school buses.
- Fleet vehicle management and tracking.
- Rental tool management.
- Construction asset monitoring.

#### OEM Wi-Fi Sensor Electronics Specifications

- Power: 2 replaceable 1.5V "AA" batteries (included)
- Communication: 802.11 b/g  
(2.412 - 2.484 GHz)
- Wi-Fi Security: Open, WEP, WPA, WPA2
- Dimensions: 3.02" x 2.1" x 1.27"
- Transmission Range: Up to 250 ft. \*
- Battery Life: Up to 5 years.\*\*

\* Actual range may vary depending on environment.  
\*\* Battery life is affected by sensor type, Wi-Fi security type, distance from Wi-Fi router, reporting frequency and other variables.



| Technical Specifications          |  |
|-----------------------------------|--|
| Networking Standards              | IEEE 802.11 b/g  |
| Frequency Band                    | 2.412 - 2.484 GHz  |
| Wi-Fi Security Standards          | Open, WEP, WPA, WPA2   |
| Wi-Fi Security Programming        | Via PC software using USB cable. (Can be changed through online software.)   |
| Network Settings                  | Auto DHCP/DNS or Static  |
| Data Logging                      | Standard - On Wi-Fi disruption, unit will log the first 50 readings and transmit when Wi-Fi connection is re-established.<br>Premiere - Unit can record up to 50,000 readings and transmit when Wi-Fi is available.  |
| Power consumption                 | 4uA sleep, 35mA active RX, 180mA TX (at +12dBm)  |
| Battery Life                      | Up to 5 years depending on sensor type, Wi-Fi security, distance from Wi-Fi router, reporting frequency and other variables. (Testing surpassed 90,000 transmissions until battery depletion.)   |
| Wi-Fi Data Rate                   | Auto configures to best rate for maximum range.  |
| Wireless Range                    | Up to 250 ft. device range (typical to standard Wi-Fi devices).  |
| Electronics Operating Temperature | Using Alkaline Batteries: -18°C to +55°C (0°F to +130°F)<br>Using Lithium Batteries: -40°C to +85°C (-40°F to +185°F)  |
| LED Light                         | Status / activity  |
| Certifications                    |    FCC ID: T9J-RN171. IC: RSS-210 low-power communication device.<br>CE ID: 0681. |

\* Hardware can not withstand negative voltage. Please take care when connecting a power device.

\*\* At temperatures above 100°C, it is possible for the board circuitry to lose programmed memory.

For more product information, to get a quote, or to place an order, please contact our sales department at 801-561-5555. Visit us on the web at [www.oemsensors.com](http://www.oemsensors.com).

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