



Scigiene ZTL-RFUSB1 Wireless Sensors and USB Pro Receiver User Guide

[Home](#) » [Scigiene](#) » Scigiene ZTL-RFUSB1 Wireless Sensors and USB Pro Receiver User Guide 

Contents

- [1 Scigiene ZTL-RFUSB1 Wireless Sensors and USB Pro Receiver](#)
- [2 Scigiene Wireless Sensors and USB Pro Receiver User's Guide](#)
- [3 System Requirements](#)
- [4 Error Reporting, Troubleshooting and Support](#)
- [5 Warranty Information](#)
- [6 Certifications](#)
- [7 Documents / Resources](#)
 - [7.1 References](#)
- [8 Related Posts](#)



Scigiene ZTL-RFUSB1 Wireless Sensors and USB Pro Receiver



Scigiene Wireless Sensors and USB Pro Receiver User's Guide

The Scigiene Wireless Sensors and USB Pro Receiver can be used with the Scigiene Premier Software Online Software. Before plugging in your Wireless GEN 2 USB Pro Receiver, ensure that all the components are included in the kit and become familiar with the types of sensors that are included.

System Requirements

1. Create an Scigiene Premier Software User Account and Setup a Sensor Network

- If you are using the Scigiene Premier Software online system site for the first time, create a new account and follow the instructions to enter your account and contact information.
- After entering your account and contact information, create your first sensor network by entering a name for the network and adding the information from your Wireless GEN 2 USB Pro Receiver. Click on the Assign Gateway button after entering the information.
- Add the information from your first Scigiene wireless sensor and click on the Assign Sensor button. Enter a name for the wireless sensor on the next screen and use the drop-down to specify how you are going to use the wireless sensor. Click on the Continue button when finished.
- On the confirmation screen, assign notifications to the sensor, assign additional sensors to your account or click on Done to go to your sensors overview page.

2. Install the Scigiene USB Pro Gateway Software

- The Scigiene Gateway Application uses your computer's internet connection to pass wireless sensor data to the Scigiene Premier Software online sensor monitoring and notification system.
- To install the software, click on Support on the main navigation bar or go to <https://www.imonnit.com/support>. From the downloads page, click on USB Gateway Installer to launch the web installer download. Save the file when prompted.
- When the file has completed downloading, browse to the folder where the file was saved. Double click the MonnitGatewaySetup.msi file, select Run when prompted then follow the on-screen instructions to complete the installation.
- When installation is complete, the program will automatically launch. You can now begin using your

wireless sensors online.

- Note that the gateway application needs to be running on your computer in order for the sensor data to be transmitted to the online system. If the gateway is not running, your sensor data is not being recorded online and notifications based on sensor data cannot be sent from the system.

- An available USB port
- Windows 10, 8, 7 or Vista with 512 MB memory (1024 MB Rec.) Windows XP or older not supported
- 20 MB free disk space
- ASP.NET 3.5

Before You Plug In Your Wireless GEN 2 USB Pro Receiver

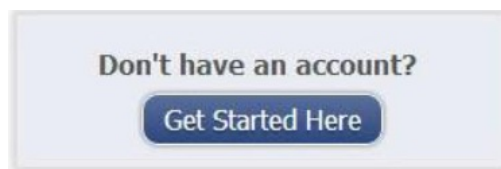
Unpack the contents of your kit(s) and become familiar with the types of sensors that were included and double check that all components are included.

- Before connecting the USB Pro Gateway to your computer, you will need to create a Scigiene account, add the gateway and any wireless sensors to your account, then install the USB gateway software.

Create an Scigiene Premier Software User Account and Setup a Sensor Network

If this is your first time using the Scigiene Premier Software online system site, you will need to create a new account. If you have already created an account you can skip to the “Logging into the Online System” section. The following instructions will guide you through the account creation process.

1. In a web browser, navigate to Scigiene Premier Software.
2. Click the “Get Started Here” button to create an account.



3. Follow the on-screen instructions to enter your account and contact information.
4. After entering your account and contact information, you will be prompted to create your first sensor network. Simply enter a name for this network.

5. Add the information from your Wireless GEN 2 USB Pro Receiver™ then click the “Assign Gateway” button.



6. a. Add the information from your first Scigiene wireless sensor then click the “Assign Sensor” button.



- 6b. On the next screen, enter a name for the wireless sensor and use the drop down to tell us how you are going to be using the wireless sensor. (This allows us to suggest settings for your sensor.) When finished, click

the “Continue” button.

7. Confirmation Screen.

When you have finished adding the sensor, you will see a confirmation screen. At this point you can assign notifications to the sensor (see Using The Scigiene Premier Software™ Online Wire- less Sensor System) , assign additional sensors to your account or click “Done” to go to your sensors overview page.

Install the Scigiene USB Pro Gateway Software

The Scigiene Gateway Application uses your computers internet connection to pass wireless sensor data to the Scigiene Premier Software online sensor monitoring and notification system. (The online system allows you to view all your sensor data, sensor status’ and configure all sensor parameters as well as setup notifications or alerts via SMS text and email.) To install the software, click “Support” on the main navigation bar or go to [https:// www.imonnit.com/support](https://www.imonnit.com/support). From the downloads page, click on “USB Gateway In- staller” to launch the web installer download. If prompted to save the file, select a location that is easily accessible and click “Save”. When the file has completed downloading, browse to the folder where the file was saved. Double click the “MonnitGatewaySetup.msi” file, select “Run” when prompted then follow the on-screen instructions to complete the installation.

When installation is complete the program will automatically launch. You can now begin using your wireless sensors online.

Note: The gateway application needs to be running on your computer in order for the sensor data to be transmitted to the online system. If the gateway is not running your sensor data is not being recorded online and notifications based on sensor data cannot be sent from the system.

Using Your Scigiene Wireless Sensors

1. Start the Gateway Software:

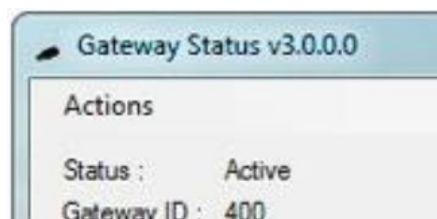
Double click on the Scigiene Premier Software Gateway program icon on your desktop or select the program from the Windows “Start Menu” under All Programs > Scigiene.

Note: Sensor data will only be transmitted to the Online Sensor Monitoring System when the gateway software is running.

2. Connect Your USB Pro Wireless Gateway

With the Scigiene Premier Software Gateway application running, connect the USB Pro Gateway to your computer. The network status in the software should change to “Active” shortly (~30 seconds) after the USB Pro Gateway is plugged in. The LED on the USB Pro Gateway will also illuminate green when the radio is active and ready to accept sensor transmissions.

Note: If the status does not change, try unplugging and re-inserting the USB gateway.



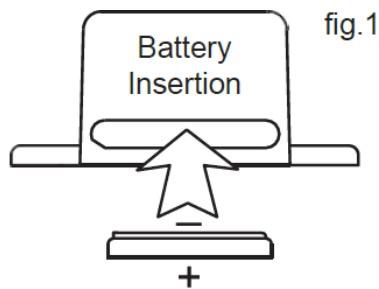
3. Insert Batteries Into Wireless Sensors

Important: Make sure your sensors are at least 3ft. away from USB Gateway.

Peel back the black sticker cover of the battery slot and slide the coin cell battery into the sensor as shown in fig.1. It will power on within 10-20 seconds. Once online, your sensor is ready to be deployed. If you wish to change a sensor configuration, change the parameter in the software. The new parameters will be transmitted to the sensor on the next heartbeat. If you need a more immediate response from the sensor, power cycle the sensor by removing, then re-inserting the battery.

Notes:

- If the sensor status indicator does not change, reset the sensor by removing the battery.
- Wait 60 seconds then re-insert the battery.
- When inserting the battery, make sure to push the battery all the way back using a paper clip.
- Note the proper orientation of battery in



Warning: Your sensors ship with a 10 minute heartbeat.

It is recommended that unless you are using the AA battery solution, you should set the heartbeat to no faster than one hour to preserve battery life. When changing a sensor's heartbeat, the new configuration information will be sent to the sensor on its next heartbeat. If you want to update the sensors immediately you can reset them manually.

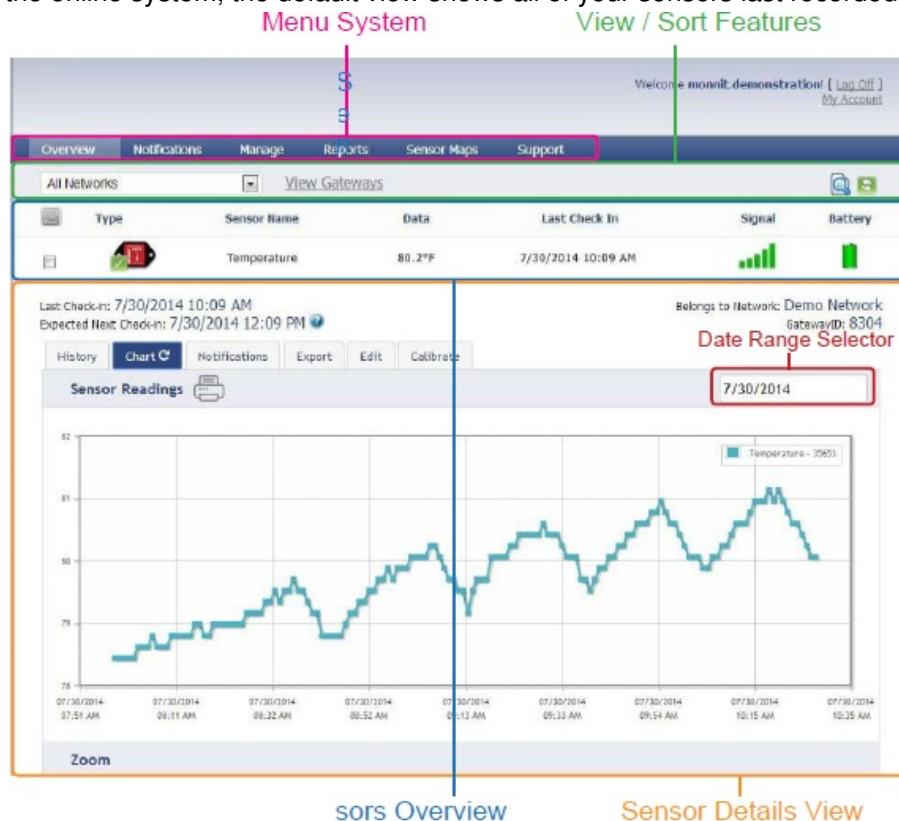
Manual Sensor Reset Process:

1. Using the end of a paper clip, push the batteries out of the sensors through the small hole in the top of the sensor
2. Change the sensor heartbeat through the online system
3. Re-insert the batteries into the sensors

Using The Scigiene Premier Software™ Online Wireless Sensor System

Understanding The Online Interface

When you log into the online system, the default view shows all of your sensors last recorded data.



Menu System





- Overview – Shows all sensors in the account and their last readings.
- Notifications – Manage sensor notifications and show all sent notifications.
- Manage – Manage networks, sensors and gateways.
- Reports – Printable account and sensor network reports.
- Sensor Maps – Visual maps to help you track sensor placement.
- Support – Support information for using sensors and software.

View / Sort Features

This section allows you to sort the sensors being viewed and search for sensors on your account.

Sensor Overview

Displays sensors on your account with their last reading and status information. Clicking on a sensor row expands the “Sensor Detail View” allowing you to view detailed information for the selected sensor. To the left side of each sensor row is an indicator to help you understand the current status of the sensor.

-  Sensor is checking in and within user defined safe parameters.
-  Sensor has met or exceeded a user defined threshold or triggered event.
-  Sensor has not checked in (inactivity alert sent).
-  No sensor readings will be recorded (Inactive)

Sensor Details View

Clicking on a sensor row on the “Overview” page expands the row to include a detailed sensor view for the selected sensor.

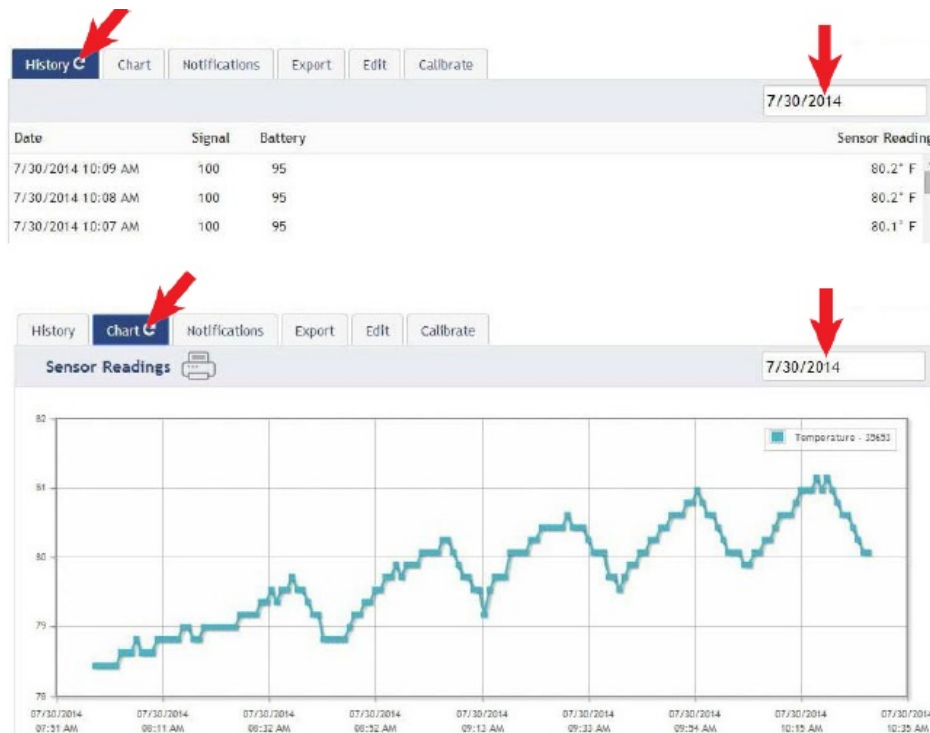
Select a tab to change between:

- History – Displays a history of the selected sensor’s data.
- Chart – Displays a graphical view of the selected sensor’s data.
- Notifications – Allows you to manage notifications for the sensor.
- Export – Allows you to archive data by exporting as a .csvfile.
- Edit – Allows you to manage sensor settings.
- Calibrate – Available certain sensor types to provide more accurate data

Note: The data shown on the chart, notification, history and export tabs is based on the date range indicated on the upper right side of the sensor detail information. To change the date range, click inside the date box.

History and Chart Views.

Clicking on the “History” or “Chart” tabs within the sensor detail panel allows you to view the sensor’s data history as time stamped data or in a graphical chart format.



Note: To change the date range of the viewable information, click on the date range box at the top right of the sensor detail panel.

Configuring Sensor Settings

To edit a sensors operation settings, click on the sensor overview row to display the details view. Click on the “Edit” tab to access the sensor configuration panel.

The 'Temperature Sensor Configuration' panel includes the following settings:

- Sensor Name:** Temperature - 35653
- Display as:** FAHRENHEIT
- Heartbeat Interval:** 120 minutes
- Sensor is on:** ALL DAY
- Aware State:** (Question mark icon)
- Aware State Heartbeat:** 120 minutes
- Assessments per Heartbeat:** 6 (Assessment frequency about 20 minutes)
- Use Aware State:** Below: 84.9 ° or Above: 105. °
- Aware State Buffer:** 0 °
- Synchronize:** OFF
- Failed transmissions before link mode:** 2

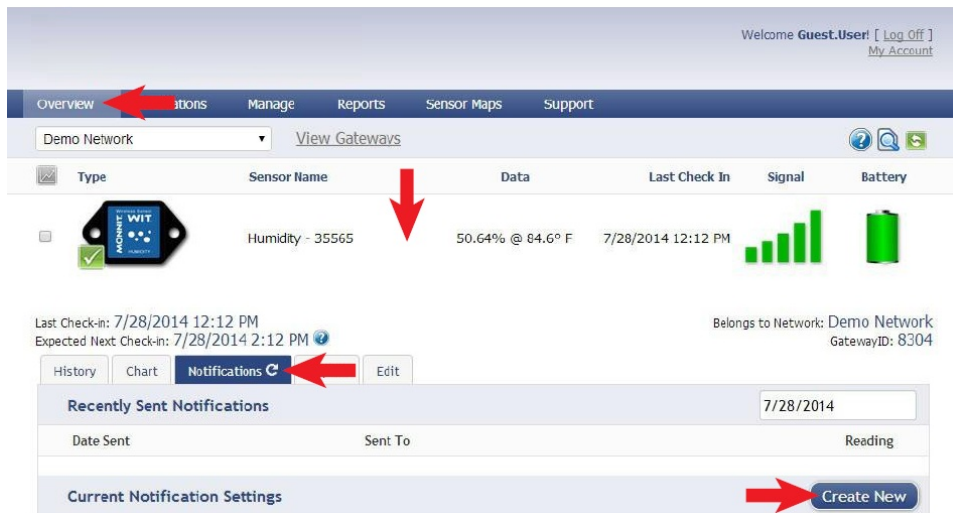
A 'Save' button is located at the bottom right of the panel.

The sensor edit panel allows you to set the primary configurations for the sensor. Mousing over the question mark icon by each setting will provide an explanation of that setting. When you have finished making changes, press the “Save” button at the bottom of this section.

Note: Be sure to click the “Save” button anytime you make a change to any of the sensor parameters. All changes made to the sensor settings will be downloaded to the sensor on the next sensor heart-beat (check-in). Once a change has been made and “Saved,” you will not be able to edit that sensor’s configurations again until the sensor has downloaded the new setting.

Sensor and/or Gateway Notification(s).

Notifications for a single sensor can be created, deleted or edited by clicking the “Notifications” tab in a sensor’s detail view.



Notifications can be created, deleted or edited for any sensor or group of sensors by clicking on “Notifications” in the main menu.



When creating a notification, you will need to select the type of notification to create.



- **Sensor Reading Notification** – Reading notifications are sensor specific (i.e., water sensor = trigger alert when water present, temp sensor = trigger alert when temp is above 70F, etc.). When creating a sensor reading notification, you will need to choose the sensor type you are creating the alert for. The select box will only show sensor types that are currently being used on your sensor network.
- **Battery Notification** – Allows users to define a battery power percentage level that will trigger an alert from the system, warning them to replace batteries.
- **Inactivity Notification** – Set-up “Inactivity” notifications to alert you when your sensors have stopped communicating with the servers. Failure to set up an “Inactivity” notification will result in no email/SMS text being sent should your sensors stop communicating with the servers.
- **Advanced Notifications** – Allows the user to set notifications based on advanced rules, such as comparing past data points with the current one to determine if a notification should be sent.
- **Existing Notifications** – Use notifications that have already been created on your account with the selected sensor.

Notification Settings

This area allows the user to set notification parameters such as naming the notification, customizing the notification message and setting sensor conditions that will trigger the notification.



People to Notify

The list on the left shows all available users on the account. You can type into the search box to filter large lists of users. Select the user(s) to receive the notification and click the arrow button to add them to the recipient list. By default, email notifications are activated. Clicking the notification delivery method icon toggles them on and off (green is on, grey is off). If the user should receive text message notifications, click on the phone icon to turn it green.

Sent From

Allows you to assign devices (sensors and gateways) that will cause the notification to be sent. When a notification is sent from the system, it will automatically include the device name and the data that caused the notification to be sent. A single notification can be assigned to multiple sensors or gateways. Sensor reading notifications can only be assigned to sensors of the same type. General notifications such as “battery status”, can be assigned to any or all sensors.

Devices to Notify

If you have a Scigiene Control or Notifier A/V device on your network, you will also see a “Devices to Notify” tab. This will allow the notification to interact with these types of devices. Select a device from the list on the left and click the arrow button to add it to the recipient list. Clicking the control icon toggles their setting.

Note: Control devices have two relays per device that are controlled separately. You can turn a relay on, off or toggle the state. You can also set a duration by clicking on the timer icon. This will perform the selected toggle (on/off/toggle) for a set duration, then change back.

Exporting Sensor Data

Clicking on the “Export” tab within the sensor data window allows you to export sensor data to a comma separated value (.csv) file or send the sensor data to an external web source.

To export sensor data, you must first select the date range for the data you want to export. Once the date range is selected, determine whether you want sensor data from the selected sensor only, from all sensors in the network or all sensors assigned to the account. When you are finished, click on “Export Data” at the bottom of this window.

The data will be exported to a comma separated value (.csv) file format. Note: Only the first 2,500 records within the selected date range will be exported. You can alternately send your sensors' incoming data to a 3rd party by clicking on the "Configure data push" button at the bottom of the window. From this area you can pass data from your wireless sensor network devices to another service in real time. This is done by coding the data into a URL query then sending the data via http get request at the time data is received. There is an extensive list of parameters that can be passed, as listed in the viewed window, that allow you to send detailed information about both the data and the sensor.

Calibrating Sensor Data

Certain wireless sensors can be calibrated for more accurate readings (ex. temperature sensors). If calibration is possible for a sensor, the "Calibrate" tab will be visible in the detail view. To calibrate a sensor, replace the last reading with the more accurate reading and click "Calibrate". All future readings from the sensor will be based off the new calibration setting.

Manage Sensor Networks

To view or edit information about your wireless sensor network(s), click on "Manage" in the main navigation. This area allows you to edit network details, create new sensor networks, and manage wireless gateways and sensors for your network(s).

Note: Some buttons and features are only visible if there is more than one sensor network setup on the account, such as the network selection box in the upper right corner.

If more than one sensor network is setup on the account, you can easily move gateways and sensors from one network to another by clicking on the "Move Device" button at the far right of the device's "Status" section. If you clear a sensor's data, the data history is deleted from the entire system and cannot be recovered. We recommend exporting a sensor's data history using the export function in the sensor details view ("Overview" page) before clearing the sensor's data if you want to have a record of the data.

Error Reporting, Troubleshooting and Support

If you are unable to solve your issue using our online support, email Scigiene support at support@Scigiene.com with your contact information and a description of the problem, and a support representative will call you within one business day. For error reporting, please email a full description of the error to support@Scigiene.com.

Warranty Information

- Scigiene warrants that Scigiene-branded products will be free from defects in materials and workmanship for a period of one (1) year from the date of delivery with respect to hardware and will materially conform to their published specifications for a period of one (1) year with respect to software. Scigiene may resell sensors manufactured by other entities and are subject to their individual warranties; Scigiene will not enhance or extend those warranties. Scigiene does not warrant that the software or any portion thereof is error free. Scigiene will have no warranty obligation with respect to Products subjected to abuse, misuse, negligence or accident. If any software or firmware incorporated in any Product fails to conform to the warranty set forth in this Section, Scigiene shall provide a bug fix or software patch correcting such non-conformance within a reasonable period after Scigiene receives from Customer (i) notice of such non-conformance, and (ii) sufficient information regarding such non-conformance so as to permit Scigiene to create such bug fix or software patch. If any hardware component of any Product fails to conform to the warranty in this Section, Scigiene shall, at its option, refund the purchase price less any discounts, or repair or replace non-conforming Products with conforming Products or Products having substantially identical form, fit, and function and deliver the repaired or replacement Product to a carrier for land shipment to customer within a reasonable period after Scigiene receives from Customer (i) notice of such non-conformance, and (ii) the non-conforming Product provided; however, if, in its opinion, Scigiene cannot repair or replace on commercially reasonable terms it may choose to refund the purchase price. Repair parts and replacement products may be reconditioned or new. All replacement products and parts become the property of Scigiene. Repaired or replacement products shall be subject to the warranty, if any remains, originally applicable to the product repaired or replaced. Customer must obtain from Scigiene a Return Material Authorization Number (RMA) prior to returning any Products to Scigiene. Products returned under this Warranty must be unmodified. Customer may return all Products for repair or replacement due to defects in original materials and workmanship if Scigiene is notified within ninety (90) days of customer's receipt of the product. Scigiene reserves the right to repair or replace products at its own and complete discretion. Customer must obtain from Scigiene a Return Material Authorization Number (RMA) prior to returning any products to Scigiene. Products returned under this Warranty must be unmodified and in original packaging. Scigiene reserves the right to refuse warranty repairs or replacements for any products that are damaged or not in original form. For products outside the ninety-day warranty period repair services are available at Scigiene at standard labor rates for a period of one year from the Customer's original date of receipt.
- As a condition to Scigiene's obligations under the immediately preceding paragraphs, Customer shall return Products to be examined and replaced to Scigiene's facilities, in shipping cartons which clearly display a valid RMA number provided by Scigiene. Customer acknowledges that replacement products may be repaired, refurbished or tested and found to be complying. Customer shall bear the risk of loss for such return shipment and shall bear all shipping costs. Scigiene shall deliver replacements for Products determined by Mon-nit to be properly returned, shall bear the risk of loss and such costs of shipment of repaired products or replacements, and shall credit Customer's reasonable costs of shipping such returned Products against future purchases.
- Scigiene's sole obligation under the warranty described or set forth here shall be to repair or replace non-conforming products as set forth in the immediately preceding paragraph, or to refund the documented purchase price for non-conforming Products to Customer. Mon-nit's warranty obligations shall run solely to Customer, and Scigiene shall have no obligation to customers of Customer or other users of the Products.

Limitation of Warranty and Remedies.

THE WARRANTY SET FORTH HEREIN IS THE ONLY WARRANTY APPLICABLE TO PRODUCTS PURCHASED BY CUSTOMER. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT

LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. SCIGIENE'S LIABILITY WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY, IN NEGLIGENCE OR OTHERWISE SHALL NOT EXCEED THE PURCHASE PRICE PAID BY CUSTOMER FOR THE PRODUCT. UNDER NO CIRCUMSTANCES SHALL SCIGIENE BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. THE PRICE STATED FOR THE PRODUCTS IS A CONSIDERATION IN LIMITING SCIGIENE'S LIABILITY. NO ACTION, REGARDLESS OF FORM, ARISING OUT OF THIS AGREEMENT MAY BE BROUGHT BY CUSTOMER MORE THAN ONE YEAR AFTER THE CAUSE OF ACTION HAS ACCRUED. IN ADDITION TO THE WARRANTIES DISCLAIMED ABOVE, SCIGIENE SPECIFICALLY DISCLAIMS ANY AND ALL LIABILITY AND WARRANTIES, IMPLIED OR EXPRESSED, FOR USES REQUIRING FAIL-SAFE PERFORMANCE IN WHICH FAILURE OF A PRODUCT COULD LEAD TO DEATH, SERIOUS PERSONAL INJURY, OR SEVERE PHYSICAL OR ENVIRONMENTAL DAMAGE SUCH AS, BUT NOT LIMITED TO, LIFE SUPPORT OR MEDICAL DEVICES OR NUCLEAR APPLICATIONS. PRODUCTS ARE NOT DESIGNED FOR AND SHOULD NOT BE USED IN ANY OF THESE APPLICATIONS.

Certifications

United States FCC

This equipment has been tested and found to comply with the limits for a Class B digital devices, 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 instruction manual, 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 of 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.

Warning: Changes or modifications not expressly approved by Scigiene could void the user's authority to operate the equipment.

RF Exposure

WARNING: To satisfy FCC RF exposure requirements for mobile transmitting devices, the antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

Scigiene Wireless Sensors and USB Pro gateways Contain: FCC ID: ZTL-RFSC1

This device has been designed to operate with an approved antenna listed below, and having a maximum gain of 5.1 dBi. Antennas not included in this list or having a gain greater than 5.1 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotopically radiated power (EIRP) is not more than that required for successful communication.

Approved Antennas

The following antennas are approved for use with Scigiene devices.

- Hyperlink HG905RD-RSP (5.1 dBi Rubber Duck)
- Pulse W1063 (3.0 dBi Rubber Duck)
- Chang Hong GSM-09 (2.0 dBi Rubber Duck)
- Specialized Manufacturing MC-ANT-20/4.0C (4" whip)

Canada (IC)

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. The radio transmitter (IC: 9794A-RFSC1) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.


This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

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Documents / Resources

 <p>Scigiene Wireless Sensors and USB Pro Receiver User's Guide For Use With Scigiene Premier Software Online Software</p>	<p>Scigiene ZTL-RFUSB1 Wireless Sensors and USB Pro Receiver [pdf] User Guide ZTL-RFUSB1, 9794A-RFUSB1, ZTL-RFSC1, 9794A-RFSC1, ZTL-RFUSB1 Wireless Sensors and USB Pro Receiver, Wireless Sensors and USB Pro Receiver, Sensors and USB Pro Receiver, USB Pro Receiver, Receiver</p>
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References

-  [ASP.NET | Open-source web framework for .NET](#)
-  [iMonnit - Online Wireless Sensors Portal | Login](#)
-  [iMonnit - Online Wireless Sensors Portal | Login](#)