

FreshLoc Technologies



TAssure Installation Manual

This device complies with Part 15 of the FCC Rules subject to the following two conditions:

- 1) This device must not cause interference, and;
- 2) This device must accept all interference, including interference that may cause undesirable operation.

Warning: Modification of this device without the consent of the responsible party may void the user's right to operate this device.

NOTE: 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.

System Requirements

CPU	Pentium III or Better
Memory	512 Megs Minimum
Hard Drive	2 gig or higher
OS	Windows 2000 / XP
Serial Port	1
Video	VGA (256)
CDROM	1
Network Card	1



System Administrator

TAssure is a gateway program responsible for collecting information from our sensors at your facility. After the data is collected TAssure places the data in an outbound queue. The data is encrypted and compressed and sent to the FreshLoc's Data Center where it can be accessed through our secured web portal.

FreshLoc requires an outbound (only) path to FRESHLOC.NET (69.15.123.140) via TCP/IP TCP Port 6120 or 6121. FreshLoc will consume minimal bandwidth. On average a 10 sensor site will typically send 200 Bytes of data per minute (12K per hour).

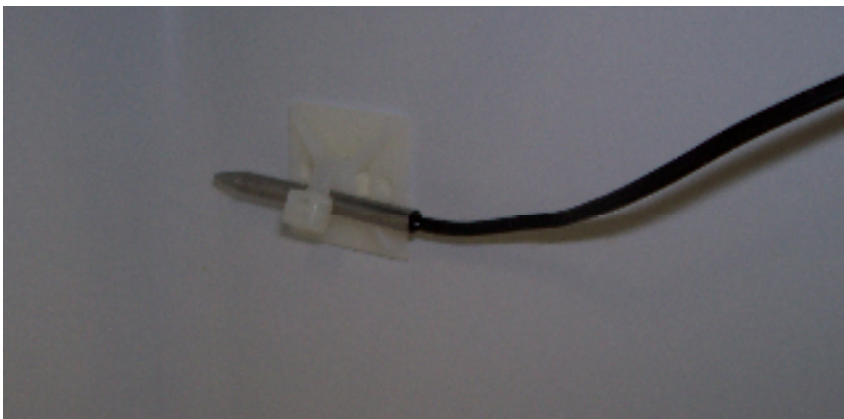
Please instate the proper rules in your companies firewall and / or install any necessary proxy client software. If you have any further questions please call a FreshLoc support member at (972) 759-0111 and select option 3.

Installing the Freshloc Sensor

1. Locate a mounting location in a low traffic area. For refrigerators and freezers, it is best to mount the sensor near the door hinge.
2. Remove the backing on the adhesive pad on the back of the sensor and mound the sensor in the desired location.
3. Route the thermistor cable through the door so that the gasket lies as flat as possible.



4. Mount the thermistor on the inside of the unit using a cable tie and a mount.



Installing the Wireless Extension Reader

Warning: The Wireless Extension Reader is equipped with a Linx Technologies antenna, Part Number ANT-916-CW-QW, with a reverse polarity SMA connector. If an antenna replacement is necessary, the antenna **must** be replaced with the same antenna to ensure compliance with FCC regulations.

In cases where the sensor is a long distance from the reader or where the sensors must pass through several walls to get to the reader, it may be necessary to install a Wireless Extension.

1. Locate a mounting position approximately half way between the sensors and the Ethernet reader. Make sure that an electrical outlet is located nearby.
2. Remove the Velcro® strip from the back of the reader. Mount the Velcro® strip on the wall in the desired position to mount the Extension Reader.



3. Mount the reader on the wall and hook up the power supply connector to the reader. Plug the power supply into the electrical outlet.









4. Verify that the sensor is coming in on the Tassure program.

Warning: The Wireless Extension reader is supplied with a Condor Model D6-10 power supply. Should it be necessary to replace the power supply, the replacement must meet the following specifications:







Output: 6VDC, 800mA minimum.

Connector: 2.1 X 5.5 mm, center post positive.






Assembly Diagram for the Single Channel Reader

Receiver Single Channel	Cat 5 Cable plugs into Receiver (indicated by a green dot)	Other end of Cat 5 plugs into 9 pin serial adapter	The 9 pin serial adapter plugs into serial port on the back of the PC	Power supply plugs electrical outlet	Complete assembly
					

Assembly Diagram for the SST Reader

Receiver SST	Cat 5 Cable plugs into Receiver	Other end of Cat 5 plugs a RS 485 to Cat 5 adapter	The 9 pin serial adapter plugs into serial port on the back of the PC	Power supply plugs into an electrical outlet and then to the B&B	Complete assembly
					

Assembly Diagram for the SST Ethernet Reader

Receiver SST Ethernet	Cat 5 Cable plugs into Receiver	Power supply plugs into an electrical outlet and then to the Receiver	Other end of Cat 5 plugs into the back of your computers Ethernet port	Complete assembly
				

Hardware Installation with a Serial Adapter (Short Range)

Inside the box, you should find the following:

- 1) Receiver
- 2) Sensors
- 3) Cat 5 cable
- 4) Software with instructions
- 5) A serial adapter (with power) with a Cat 5 connection on it



To connect the reader to your PC, please follow these steps:

- 1) Plug the computer cable into the serial port on your computer. If you have more than one serial port, plug it into the first one.
- 2) Plug the power cord into an outlet near your PC.
- 3) Then connect your Cat 5 cable to your Reader and then with your serial adapter (with power).
- 4) Look at the bottom of the reader, you should see blinking lights. If you do not, make sure the power cord is plugged into the serial adapter (with power) and to the electrical outlet.



Once you see the blinking lights, mount the reader as high as possible

Hardware Installation with a B&B Adapter (Long-Range Adapter)

Inside the box, you should find the following:

- 1) Receiver
- 2) Sensors
- 3) Cat 5 cable
- 4) Software with instructions
- 5) A black RS-232 to RS 485 Converter with power cord (B&B Converter)
- 6) A RS 485 to Cat 5 adapter
- 7) A RS 232 to a serial cable



To connect the reader to your PC, please follow these steps:

- 1) Plug the RS 232 to a serial cable into the serial port on your computer. If you have more than one serial port, plug it into the first one.
- 2) Plug the RS 485 to Cat 5 adapter into the side that says RS-485 on the B&B Converter
- 3) Plug the power cord into the B&B Converter and then to an outlet near your PC.
- 4) Then connect your Cat 5 cable to your Reader and then with the RS 485 to Cat 5 adapter.
- 5) Look at the bottom of the reader, you should see blinking lights. If you do not, make sure the power cord is plugged into the B&B Converter and to the electrical outlet.
- 6) Once you see the blinking lights, mount the reader as high as possible.

Installing the Long-Range Adapter

Please refer to the diagram below for the installation of the B&B.



CAT5 RJ45 to RS485 Converter



RS485 Converter to RJ45 – DB25F Converter



RS-232 Converter to DB25M-DB9F Converter



DB9F to DB9M-DB9F Converter



The power supply plugs into the side of the B&B



Completely Assembled B&B Adapter



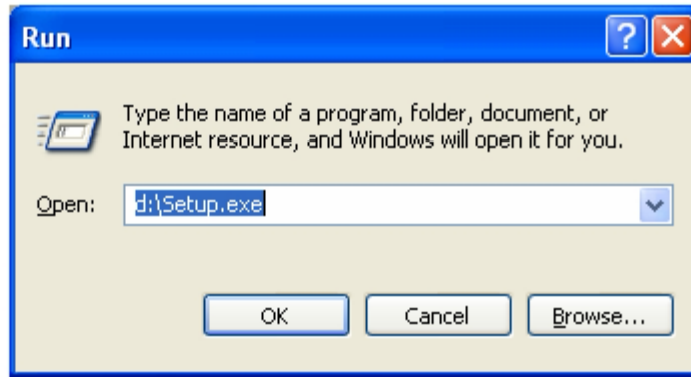
Insert the DB9M on the long-range adapter into the serial port of PC and connect the CAT5 RJ45 cable to the Reader (does not matter which jack you put it in). Plug the power supply into an outlet. You should now see a red light on the Reader.

Software Installation

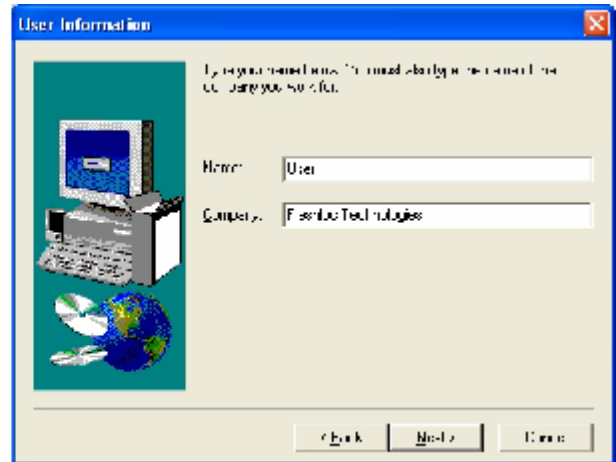
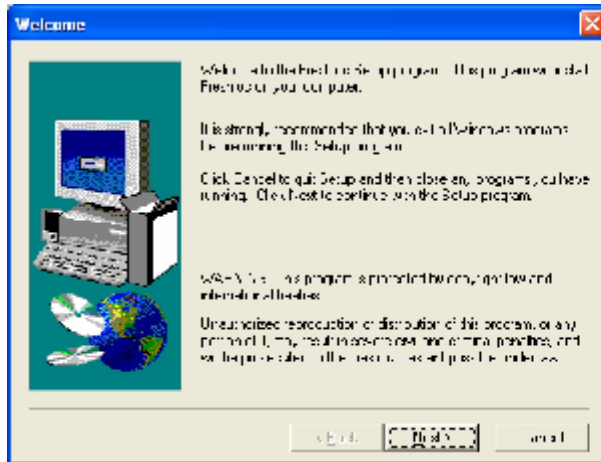
Installation

You should have received a CDROM, labeled: TAssure Installation. Follow the instructions as directed:

1. Insert The CD into your CDROM Drive (If Downloaded from website go directly to step 3)
2. Click **Start, Run**, and then type **D:\Setup.exe** (Where D: / is the letter of your CDROM drive). Click **OK** to start installation

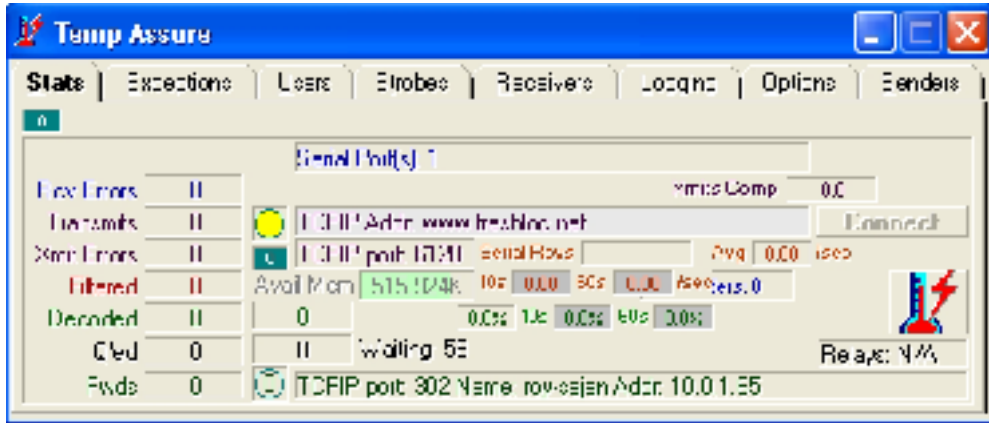


3. Click **Next** at the welcome screen
4. Type in your name and company name in the spaces provided and click **Next**



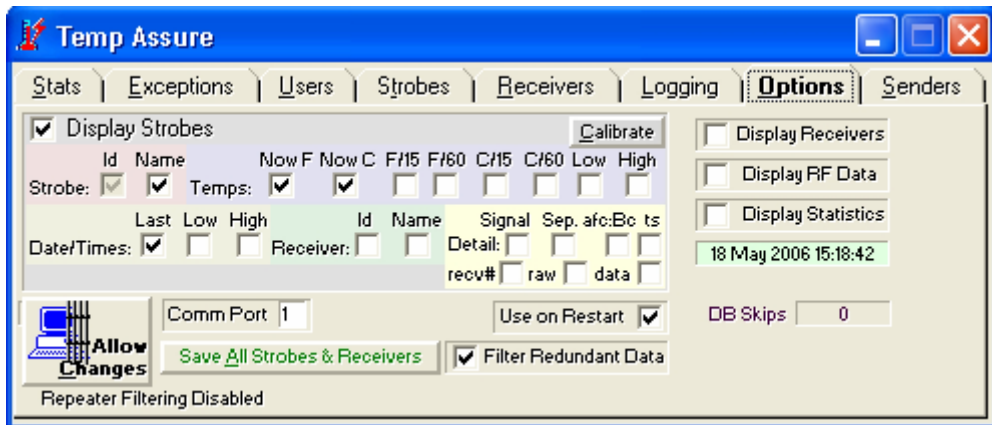
Using TAssure

When TAssure launches, the following will appear. If the computer cable is plugged into Com 1, move on to the next page. If you need to change your com port, click on the Options Tab.

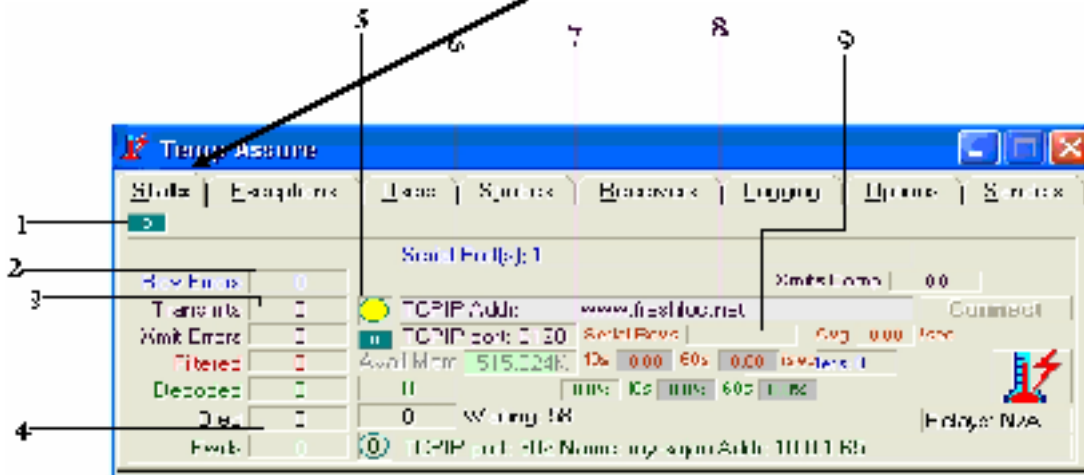


You will now see the screen below. To change the com port:

- (1) Type in the com port number in the box next to Communications Port, and press enter.
- (2) Click the box next to **Use on Restart** to place a checkmark.
- (3) Click on the **X** to close TAssure.
- (4) Watchdog will automatically bring TAssure back up.

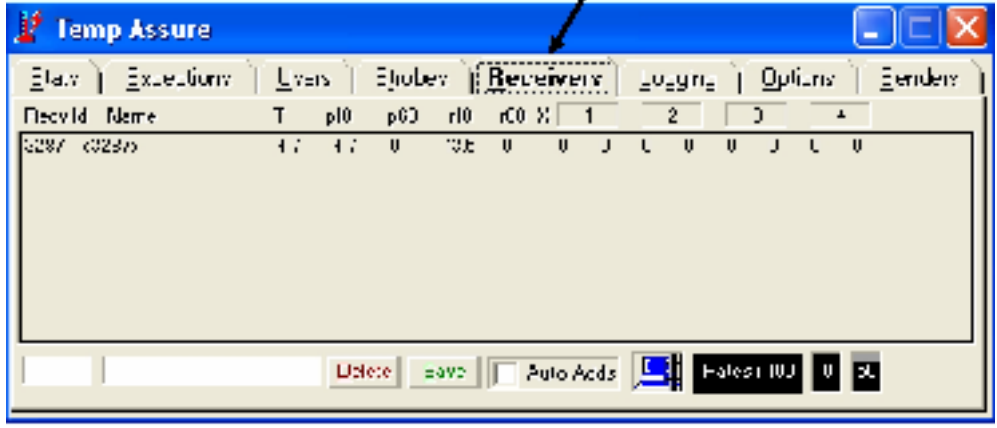


Now let's start with the Stats window. Click on the Tab



1. Reader Connection Status
 - a. Blinking Green Box – Reader is connected and receiving Information.
 - b. Green Box – Reader is not connected to the computer.
 - c. Red Box – Reader is connected to the wrong Com Port.
2. Rcv Errors – Do not be alarmed by **Rcv Errors**, these numbers are to be expected. Normally they are there at least about 30% of the Time.
3. Transmits – Amount of information Sent out.
4. Q'ed – Amount of Information waiting to be sent out.
5. Internet Connection Status
 - a. Green Box – TAssure is able to connect to the internet to send data.
 - b. Yellow Box – TAssure is not able to connect to the internet to send data. (Check with your IT Dept to make sure that port 6120 is open to send data.)
 - c. ? Mark Box – TAssure is waiting to connect to the internet to send data.
6. Reader Connection Port – Tells you what port the reader is connected to the PC.
7. Incoming TCP/IP Port – Tells you which port the data is coming through.
8. Outgoing TCP/IP Address – Tells you which web or IP address the data is going to.
9. Serial Rcv – Tells you how many packets have been received from the reader.

Now that you know that everything is working, click on the [Receivers](#) Tab



Receivers

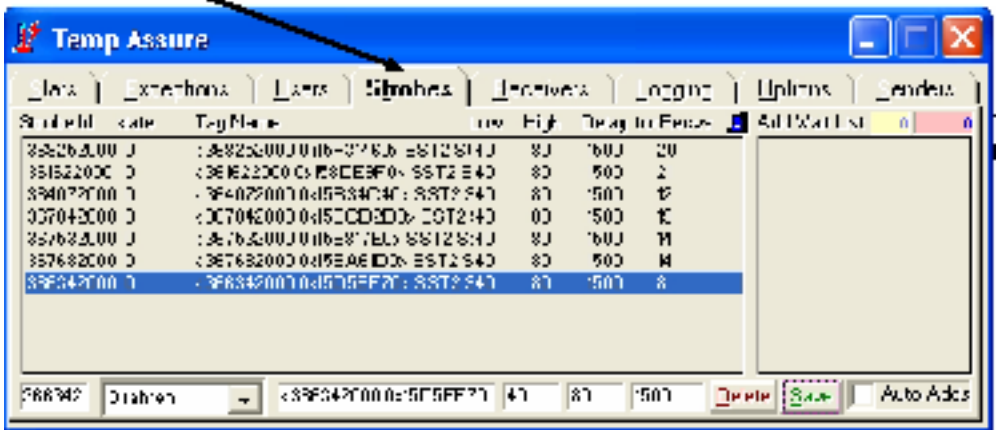
This is where you type in the numbers of the receiver(s) you have if you have a local system.

- (1) In the first box, type in the number of your receiver
- (2) In the second box, type in a name for your receiver (i.e. back office, store #123, etc.)
- (3) Click Save
- (4) Repeat for additional Receivers

For the Auto Add function just click on the Auto Add Box to enable it and TAssure will add receivers automatically

Note: You must type a name for the receiver in order to run Local Reports (discussed later in this document).

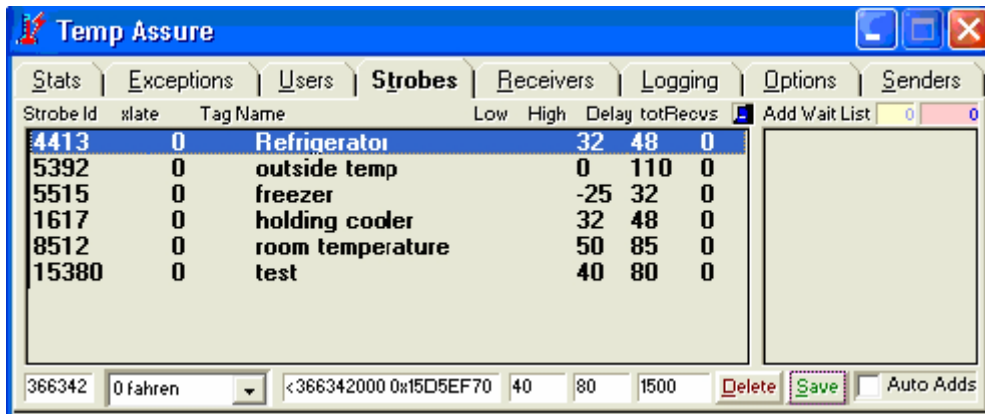
Now, click on the [Strobes](#) tab.



Strobes

The *Strobe* tab and *Strobe Display* utility display the sensor temperatures and sensors received by the FreshLoc system. You will need to input the strobe ID's on this screen in order to view the temperatures of your strobes.

- (1) In the first box, enter in the number of your strobe
- (2) The second box is a pull down menu, select 0 Fahrenheit
- (3) In the third box, enter in location this strobe will be placed
- (4) In the fourth box, enter in the low alert temperature (for example, if it is a cooler, you wouldn't want it to go below 32 degrees, so you would enter in 32 in this box).
- (5) In the fifth box, enter in the high alert temperature (for example, if it is a freezer, you wouldn't want it to go above 32 degrees, so you would enter in 32 in this box).
- (6) The sixth box is Delay. You may enter in a time interval for a strobe to alert. The value needs to be entered in seconds. For example, if you set a delay of 900 seconds (15 minutes) for your freezer and the temperature stayed above 32 for 15 minutes, the strobe would turn red on the strobe display screen.
- (7) Now click save. You should now see your strobes on both the TAssure program and on the strobe display screen.

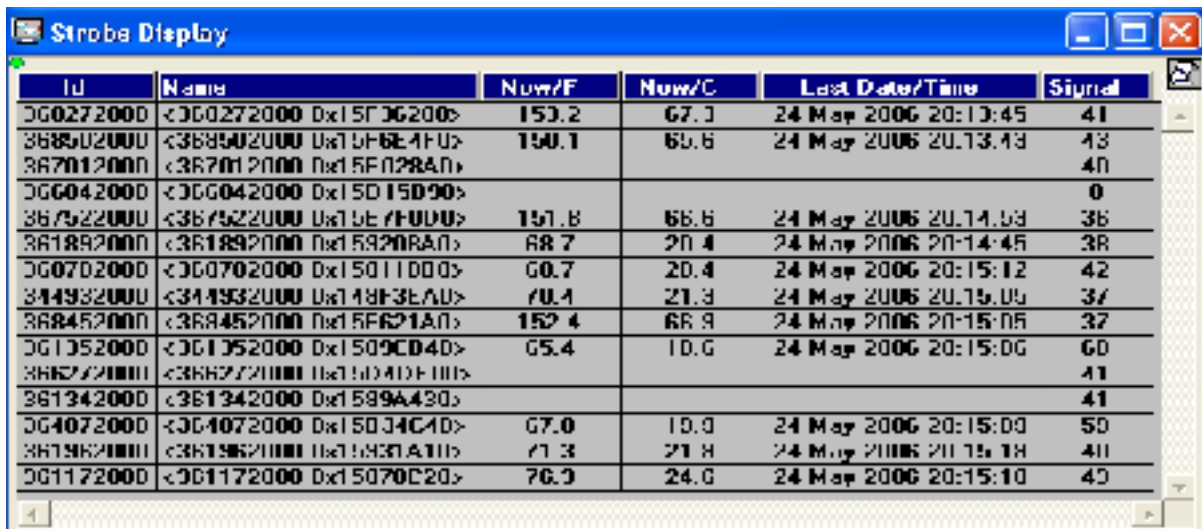


Note: Check with the health department or your Food Quality Assurance department for proper temperature settings.

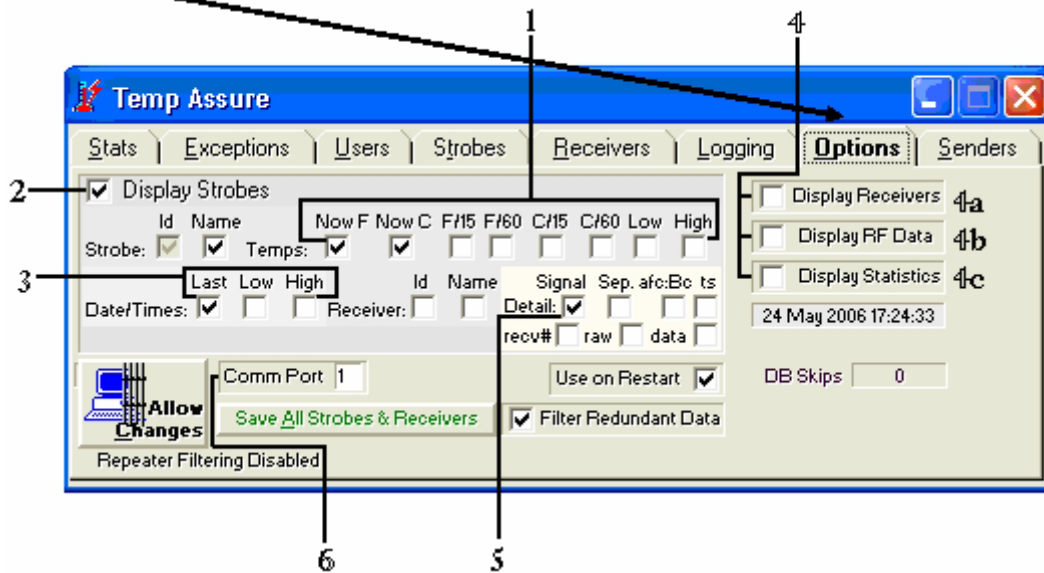
For the Auto Add function just click on the Auto Add Box to enable it and TAssure will add receivers automatically.

Strobe Display

Strobe Display is the utility that displays the sensor temperatures and sensors received by the FreshLoc Reader.



Now, click on the **Options** tab.



1. Temp Settings – Settings that displays in Fahrenheit & Celsius from 15 to 60 minutes.
2. Display Strobes – Displays utility that displays the sensor temperatures and sensors received by the FreshLoc Reader.
3. Date/Times Settings – Settings that displays Last date & time that the reader
4. Diagnostics Setting
 - a. Displays the receivers that the TAssure is reading & what sensors are being picked up by which reader.
 - b. Utility that displays the data that is being pickup by the reader.
 - c. Diagnostic tool for FreshLoc
5. Signal – Displays the signal strength
6. Com Port Setting – Tells which com port the reader is connected to. When changing the com port hit the ENTER KEY after the change and then close TAssure and then restart it again.



If you see this Icon, means that *TAssure* is locked and you are unable to edit entries in the Program

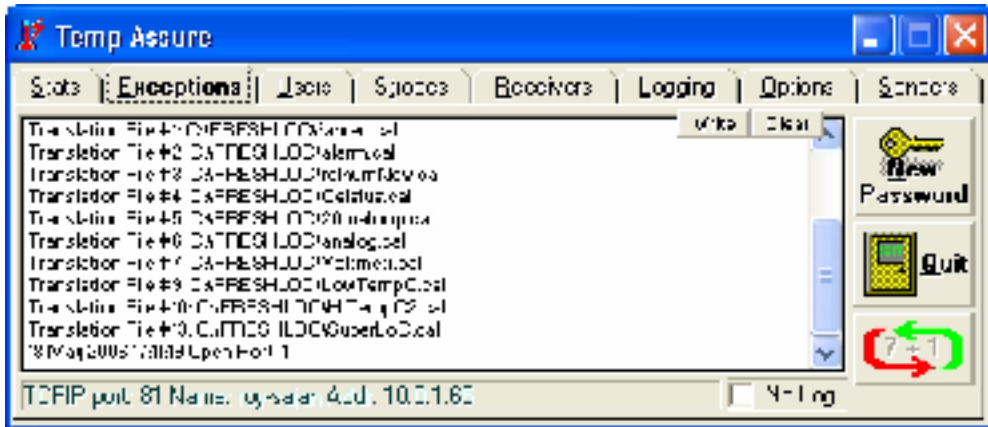


If you see this Icon, means that *TAssure* is unlocked and you are able to exit the program.

Now you have completed setting up your system. Below are snapshot of what the other menus consist of.

Exceptions

The *Exceptions Tab* displays the transaction log and error log for outgoing transactions. This information would only need to be used when talking with FreshLoc Support. If you want to change the password for locking and unlocking TAssure, click New Password. Type in a password and press enter. There is no default password. It is simply blank.



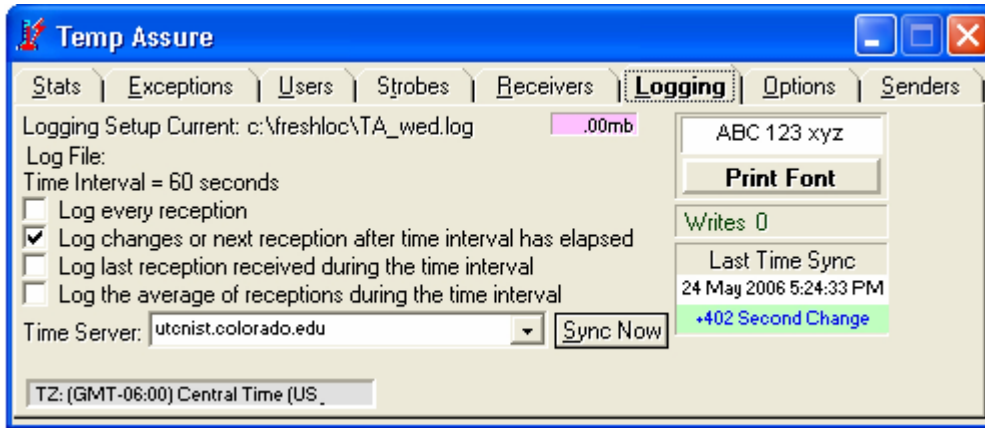
Users

The *Users Tab* lists other TAssures that may be sending information to your machine. It also stores the username and password information should you be sending data through your ISP to our data center in order to view your data on the internet. If you are interested in this feature, please contact our sales department at 972-759-0111 option 3.



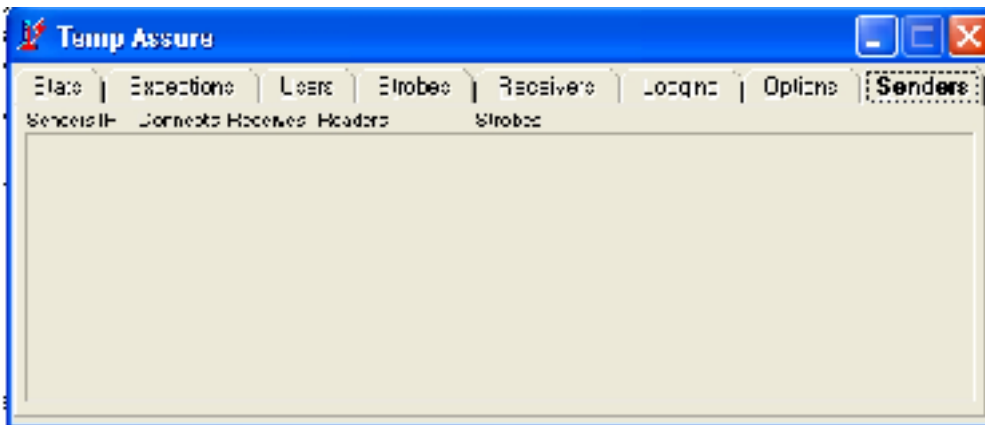
Logging

The *Logging* Tab lists the fonts for the Log File and the Time Sync feature as well. It also lets how the Log Files are written.



Senders

The *Senders* Tab is used for the Ethernet Readers. It is used like serial port and displays the senders IP Address, Readers, & Strobes.



If there are any problems or if you should have any questions concerning the TAssure program please call 972-759-0111 option 3 for support.

Instructions for changing the password are located under the description for the Exceptions Tab.