

S-Tag

Model - T42-140 Temperature Monitoring Tag

Installation Instructions



RadarFind™ Corporation
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Warnings:

It is important to follow all instructions shipped with this product.

UNPACKING: After unpacking the unit, examine it for damage that may have occurred in transit. If the equipment has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier stating the extent of the damage, or contact RadarFind customer service for repair or replacement.

Read and understand all instructions before installing or operating this equipment.

The selection of the mounting location for the device is to be accomplished under the direction of the director of Clinical Engineering and conform to all company policies, and must be in accordance with specifications in the sub-chapter for each device type.

CAUTION: Risk of malfunction. Install these devices only in areas with an ambient temperature between 0° and 50°C.

[15.19] 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.

[15.21] Information to user: Changes or modifications not expressly approved by the RadarFind Corporation could void the user's authority to operate the equipment

[15.105] NOTE: 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.

[15.249] This equipment operates under Section 15.249 of the Title 47 FCC Rules.

This product protected by one or more of the following U.S. Patents: 7372365, 7525432 & 7528716. Other patents pending.

Contents of standard package:



(1) T42-140 Temperature Monitoring Tag

Accessories

Adhesive Pad for permanent mounting - # 90-300-303

General Guidelines:

Temperature monitoring tags have a maximum range of -40C to +70c



Example Status tag placement

Select a standard location in each monitored unit where the tag is not obstructed by metal containers or liquids which may interfere with the tags reporting signals.

Placing the tag in the door shelf is a good option if available.

Using adhesive pads – There are adhesive pads available to attach the tags to the sides of the refrigerator if desired.

Assigning a Temperature Tag to a device:

1 – NAME - Create or select the correct device.

2 – DESCRIPTION -Give the device a Name and Description.

3 – LOCATION -Select the correct LocationID for where the device is located. This will display the device in the correct place on the maps. (Refer to a copy of the RadarFind installation maps to select the LocationID)

The screenshot shows the RadarFind TempView web interface. At the top, there is a navigation bar with the RadarFind logo, a 'LIST' button, a 'PRINT' button, a site selector dropdown showing 'Site: Savannah Memorial Main Campus' and 'Med-Rx Main Freezer (old)', and a 'HOME' button. Below this is a section titled 'Device Name, Description & Location Settings' with a gear icon. It contains four input fields: 'Name' with the value 'Med-Rx Main Freezer (old)', 'Description' with the value 'IVPB freezer from Baxter (oldest of the two)', 'Location' with the value '1P33', and 'Tag' with the value '00:02:56:55'. Each field has a 'Required' label and a tooltip. The 'Active Device' section has a toggle switch set to 'ON'. Below this is a 'Temperature Settings' section with a gear icon and a temperature unit dropdown set to '°C'. It features a 'Min & Max' slider with a green bar indicating the range, and three buttons: '20°C Max Range', '-20°', and '-10°'.

4 –TAG -Enter the TagID of the Temperature Monitoring Tag placed in that device.

5 – ACTIVE DEVICE - Select whether the device is Active or not. Devices which are not Active will not appear in the default user interfaces or generate alerts. (For example mark a device as InActive when the unit is out of service)

6 – MIN & MAX - Set the acceptable temperature range for the device. If the device goes out of the range specified an alert may be sent. Some adjustment of this range may be required depending on the normal fluctuations of the device over time. Set the range to accept normal fluctuations, but to warn if those normal conditions are not maintained.

7 – TRACK EVERY - Set the time periodicity to log the temperature tracking record. This is the periodicity at which the temperature for this device is recorded when the temperature is within the normal range. When the temperature deviates from the normal range as set the temperature will be logged every 5 minutes.

The screenshot shows a web-based configuration interface for a device. It is divided into two main sections: "Temperature Tracking Time Settings" and "Alert Email & Visual Indicator Settings".

Temperature Tracking Time Settings:

- There is a "Track Every" dropdown menu currently set to "Hour". A yellow tooltip next to it says "Required | Time between recorded temperatures while in normal range."

Alert Email & Visual Indicator Settings:

- An "Activate Alert" toggle switch is currently set to "ON".
- A "Send To" text field contains the email address "sfisher@islandssoftworks.com". A yellow tooltip next to it says "Required | Email address that will receive alerts when device is outside of normal range."
- A "Send When" text field contains the number "30". A yellow tooltip next to it says "Required | Minutes elapsed before an alert email is sent when temperature is outside of normal range."
- Below these fields are two empty boxes: "Locations with Alert" and "Selected Alerts". A yellow tooltip next to them says "Select locations from the Locations with Alert box to add. Select locations from the Selected Alert box to remove."
- At the bottom right, there are two buttons: "SAVE" and "CANCEL".

8 – ACTIVATE ALERT- Select whether the Alert function for this device is Active or not. Alerts which are not Active will generate alerts. (For example mark an Alert as InActive when the unit is out of service)

9 – SEND TO – Enter the email address(s) for persons who should receive email notifications when this Alert is triggered.

10 – SEND WHEN – Enter the time the device has to remain out of temperature range before sending an email Alert,.

11 – SAVE the configuration.

(Location with Alert and Selected Alerts refer to a visible and audible Ethernet attached alerting device, for future use)

Technical Specifications:**Model T42-140 - Temperature Monitoring Tag**

DC power:	Internal sealed lithium battery
Power consumption:	Average 15uA
Communications	902-928 MHz FSK
Transmit Power	+10dBm maximum - *nominal* TX field level is 70dBµV/m @ 1m
Antenna:	Unity gain isotropic
Communications:	FCC Subpart 15.249
Operating:	-40 to +70° C, 5% to 90% RH, non condensing
Packaging:	ABS and Polycarbonate (UL Flammability Rating V0)
Accessories:	Adhesive pad
Dimensions:	Tag T42-140 (2.5" L x 2.25" W x 1.5" D)

*FCC Label***RadarFind Corporation™**

Appendix A – Temperature Tag Displays

Device Name	Description	Assigned Location	Current Temperature		
Rx Main Refrigerator (Vaccine)	Main Pharmacy Refrigerator w/ Vaccines	1P30	39°	4.8°	
Rx Main Refrigerator (non vaccine)	Main Rx refrigerator w/o vaccines	1P30	Fahrenheit 39°	Celsius 4.6°	
Rx Investigational Drug Refrigerator	Investigational Drug Refrig in Back of Dept	1P15	Fahrenheit 37°	Celsius 3.7°	
TICU Refrigerator	TICU Refrigerator in Pyxis Tower	2TIC10	Fahrenheit 33°	Celsius 1.0°	
Angio Freezer	Angio Freezer in Pyxis Tower (Interventional lab)	1CTAH2	Fahrenheit 23°	Celsius -5.4°	
Angio Refrigerator	Angio Refrigerator in Pyxis	1CTAH2	Fahrenheit 46°	Celsius 8.4°	
Peds ED Refrigerator	Pediatric Emergency Room Refrigerator in Pyxis Tower	1EDPH10	Fahrenheit 42°	Celsius 6.6°	
L&D Refrigerator	L&D refrigerator in Pyxis Tower	2MBC36	Fahrenheit 44°	Celsius 7.9°	
L&D Freezer	L&D Freezer in Pyxis Tower	2MBC36	Fahrenheit 8°	Celsius -13.8°	

The standard TempView graph displays Device Name, Description, Assigned Location, Current Temperature, and a tool bar for each Active device.

(To display InActive devices check the Show Inactive Devices box on the top tool bar.)

Name and Location columns are sortable, and filters are available in the top tool bar to filter the devices by Floor or Area.

The tools available for each device are, from left to right:

- 1 – Text Report
- 2 – Temperature Graph
- 3 – Report Log
- 4 – Edit device
- 5 – Show location on a map.

Appendix B - Maintenance