

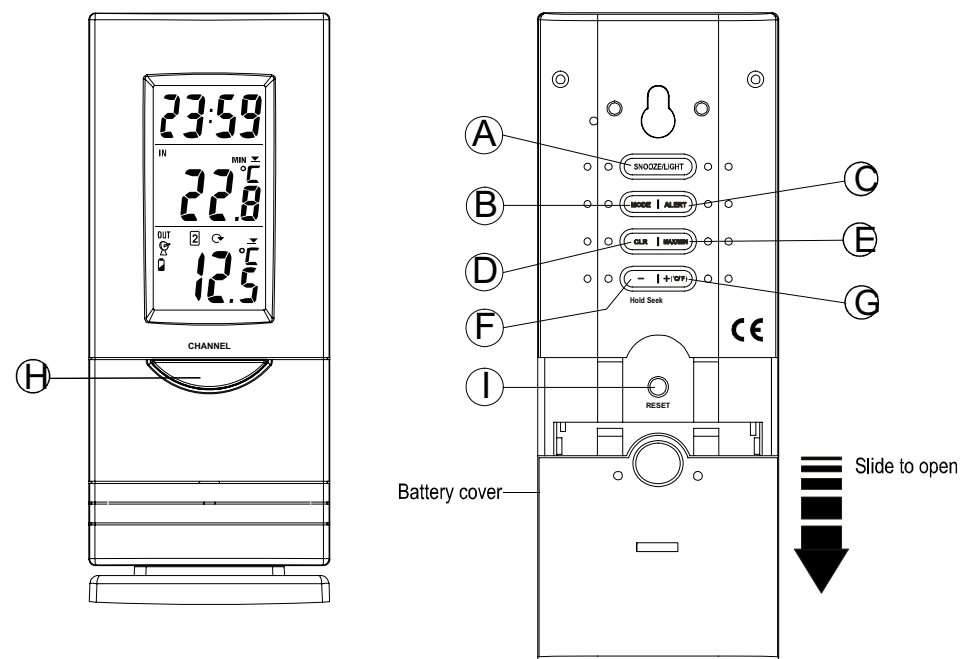
INDOOR THERMOMETER WITH OUTDOOR WIRELESS TEMPERATURE SENSOR

with clock and snooze alarm
MODEL: 883F01

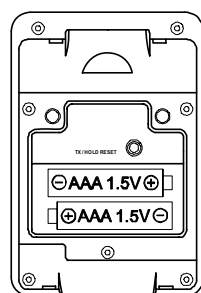
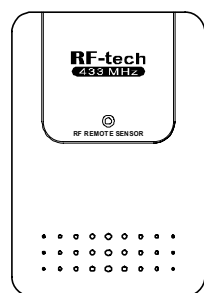
INSTRUCTION MANUAL

1. INTRODUCTION

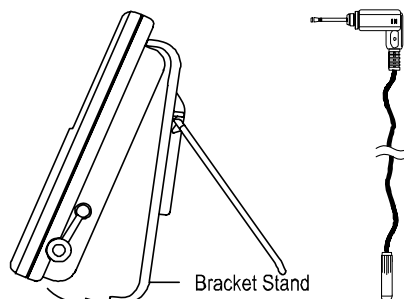
Thank you for purchasing our Indoor/Outdoor thermometer with wireless thermometer sensor. The receiving unit is designed to register temperature from a wireless remote sensor, which sends the temperature of its location to the receiving unit via a 433 MHz signal. It is also possible to order additional remote sensors, but only a maximum of 3 remotes can be operated for one receiving unit. It is also equipped with a snooze alarm and a time display. To ensure proper operations, please read this instruction manual carefully and save it for future reference.



Remote Sensor
Without LCD display



Detachable probe (optional)



Lift off this part

2. DESCRIPTION OF BUTTONS

- [SNOOZE/LIGHT]** button
Press to activate the snooze function when the alarm signal sounds, or to turn on the backlight for 5 seconds.
- [MODE]** button
Press to toggle between the alarm time and the actual time display. When the actual time is displayed, press and hold to enter the clock setting mode.
- [ALERT]** button
Press to enable or disable the temperature alert function. When in alert mode, press and hold to enter the temperature alert setting mode.
- [CLR]** button
Press to clear the recorded maximum and minimum indoor and outdoor temperatures.
- [MAX/MIN]** button
Press to display the maximum and minimum indoor and outdoor temperatures.
- [-]** button
Press in clock setting mode to select the desired minutes, or press during temperature alert setting mode to decrease the temperature to the desired boundary.
- [+(°C/°F)]** button
Press to select the temperature display in Celsius (°C) or Fahrenheit (°F), or press during temperature alert setting mode to increase the temperature to the desired boundary.
- [CHANNEL]** button
Press to display the temperature recorded by the different remote sensors (if more than one remote sensor was installed), or to select the auto scroll mode (↺) so that the receiving unit scrolls automatically from one channel to the other.
- [RESET]** button (located inside the battery compartment)
Press and hold to return all settings back to their original values (set at the factory).

3. BATTERY INSTALLATION – **Very Important**

Note: The batteries must be installed in the following sequence in order to activate the outdoor temperature sensor
1st. Insert the batteries into the indoor receiving unit.
2nd. Insert the batteries into the outdoor remote sensor.

NOTE: When replacing the batteries, in the receiving unit, please repeat all steps in point 3. When replacing the batteries, in any of the remote sensor units (if more than 1), please refer to point 13. It is important to note that new batteries are always to be used. Do not mix old and new batteries as the old ones may leak. Furthermore, in order to protect our environment, please dispose the old batteries promptly and properly. Please do not burn or bury them.

Set Up instructions for:

For the receiving unit

- Press the cover tab, and slide down the battery compartment cover at the back of the receiving unit.
- Insert 2 AAA size batteries according to the polarity marks "+" and "-" shown in the battery compartment.
- The (OUT) icon and the dash (---) icon will flash at the bottom of the LCD display. The receiving unit is now ready to receive a signal from the RF remote sensor unit.

For the remote sensor unit

- Remove the removable stand and wall-mount of the remote sensor unit by releasing the 2 fixing snaps at the bottom of the unit and pulling it so as to lift it off the sensor.
- Using a small Philips screwdriver, unscrew the 4 screws that allow the battery compartment cover to stay in place.
- Once the 4 screws are completely loosened, remove the cover.
- Insert 2 AAA size batteries according to the polarity marks shown in the battery compartment.
- Once the batteries are inserted in the battery compartment, the sensor will automatically transmit a temperature signal to the receiving unit at 30-second intervals. The sensor is also equipped with a manual transmission button (TX/HOLD RESET). If auto-registration is not successful, press this button for 2 seconds, the remote sensor will automatically send a temperature signal to the receiving unit.
- The temperature read by the remote sensor will appear at the bottom of the LCD display. If it does not, repeat all steps of point 3. BATTERY INSTALLATION.
- Once registration of the signal is confirmed, the icon "1" will appear in the upper left corner of the bottom part of the LCD. Reinstall the rubber seal into the cover groove, and close the battery cover. Tighten the screws, and snap on the removable stand and wall-mount.

Note: After placing the remote sensor in its desired location, it may take up to 5 minutes for the receiving unit to display the temperature read by that particular remote. If the (---) dash icon appears and flashes, this indicates that the signal has been interrupted. In this case, rotate the sensor in steps of 45°, and wait at least 3 minutes at each step. If the (---) dash icon stops flashing, press and hold the [SNOOZE/LIGHT] button for 5 seconds so as to allow the receiving unit to re-register the temperature read by the remote. The (---) dash icon will flash again. If the receiving unit is still not registering after this procedure, please move the remote closer to the receiving units or reposition both units until the receiving unit registers the remote sensor's readings. For better results, the transmission range should not exceed 100 feet (30meters) in a relatively open space area. Do not confine either unit in a steel container or heavily insulated room.

4. ADDING ADDITIONAL REMOTE TEMPERATURE SENSORS (OPTIONAL)

The 883F01 is designed to receive signals from a maximum 3 different remote temperature sensors. Following are some brief instructions for the basic setup of remote temperature sensor units with the 883F01. These extra sensors can be purchased by contacting Springfield Instruments Company of Canada directly at (514) 748-6721.

Note: When setting up multiple units it is important to remove the batteries from all existing units in operation, then to insert batteries first into the receiving unit, and second into all the remote temperature sensor units in numeric sequence. Transmission problems will arise if this is not done correctly and if the total time for set-up exceeds 6 minutes.

- It is necessary to remove the batteries from all units currently in operation.
- Remove the battery covers of the receiving unit and all remote temperature sensor units.
- Place all remote temperature sensor units in a numeric sequential order.
- Insert batteries in the receiving unit as described in point 3.
- In sequential order, install batteries in the remote sensor units as described in point 3. Please do not insert batteries in all remote sensors at the same time, otherwise this will cause unsuccessful registration. So, you must wait for the registration of the first remote to be completed (i.e. the temperature read by the first remote will be displayed at the bottom of the LCD and the icon "1" will appear indicating that the first remote has registered). Then insert the batteries in the second remote sensor, and wait for the registration to be completed (i.e. the temperature read by the second remote will be displayed at the bottom of the LCD and the icon "2" will appear indicating that the second remote has registered). If you have a third remote, only after the second remote has registered can you install the batteries in the third one, and wait for registering. If either one of the remotes fails to register, please repeat all steps of point 4.

Note: After placing the remote sensors in their desired location, it may take up to 5 minutes for the receiving unit to display the temperature read by a particular remote. If the (---) dash icon appears and flashes for a particular remote, this indicates that the signal has been interrupted. In this case, rotate the sensor in steps of 45°, and wait at least 3 minutes at each step. If the (---) dash icon stops flashing, press and hold the [SNOOZE/LIGHT] button for 5 seconds so as to allow the receiving unit to re-register the temperature read by the remote. The (---) dash icon will flash again. If the receiving unit is still not registering after this procedure, please move the remote closer to the receiving or reposition both units until the receiving unit registers the remote sensor's readings. For better results, the transmission range should not exceed 100 feet (30meters) in a relatively open space area. Do not confine either unit in a steel container or heavily insulated room.

5. VIEWING AND OPERATING WITH MULTIPLE REMOTE TEMPERATURE SENSOR UNITS

- To view the temperature of a different remote temperature sensor unit, press [CHANNEL] button. A shift from one "boxed" number to the next should be observed in the bottom part of the LCD. The receiving unit also has an auto scroll feature allowing it to automatically shift from one remote sensor to the next.
- To enable the auto scroll function, press and hold the [CHANNEL] button for 3 seconds. An icon "↺" will be displayed at the bottom part of the LCD. To disable the auto scroll, press and hold the [CHANNEL] button for 3 seconds.

6. MAX/MIN TEMPERATURE

- The receiving unit records the maximum and minimum indoor and outdoor temperature readings.
- To view the Maximum/Minimum temperature: first select from which remote temperature sensor you wish to read the information (indicated by the "boxed" number).
- Press the [MAX/MIN] button once to read the maximum temperature recorded.
- Press the [MAX/MIN] button a second time to read the minimum temperature recorded.

- e. Press the [MAX/MIN] button a third time to return to normal display of the present temperature.
- f. To erase the MAX/MIN temperature recordings for all units, make sure that either the maximum or minimum temperature recording is displayed on the LCD. Press [CLR] button once.

7. SET THE TIME

- a. Make sure the [:] icon is displayed in the top part of the LCD. If the [:] icon is not blinking, press the [MODE] button once.
- b. Press and hold the [MODE] button for 3 seconds. The hour format 12hr or 24hr will blink on the upper part of the LCD. Press the [+ °C/°F] button or the [-] button to select the desired hour format. Then press the [MODE] button to confirm your selection, and to access to the time setting mode.
- c. Press the [+ °C/°F] button to select the desired hour, and press the [-] button to select the desired minutes. Then press the [MODE] button to confirm your selection, and to access to the time zone setting mode.
- d. Press the [+ °C/°F] and the [-] buttons to select the desired time zone. Then press the [MODE] button to confirm your selection, and to exit clock setting mode.

NOTE: If the receiving unit idles for 8 seconds during setting, it will exit setting mode and return to normal display.

8. SET THE DAILY ALARM

- a. Make sure the [:] icon is displayed in the top part of the LCD. If the [:] icon is blinking, press the [MODE] button once to change it.
- b. Press and hold the [ALERT] button for 3 seconds. The hours and minutes will blink.
- c. Press the [+ °C/°F] button to select the desired hour, and press the [-] button to select the desired minutes. Then press the [MODE] button to confirm your selection.
- d. The alarm is automatically activated after setting, and the "🔔" icon will be displayed in the upper part of the LCD.
- e. To disable the alarm, make sure that the "🔔" icon is displayed in the upper part of the LCD.
- f. Press the [CLR] button to disable the daily alarm.
- g. To enable the daily alarm (if already set at desired time, otherwise repeat steps a to d), press the [CLR] button to activate the daily alarm and the "🔔" icon will be displayed in the upper left corner of the LCD.

9. SNOOZE FUNCTION

- a. The alarm will go off for one minute at the set time.
- b. Press the [SNOOZE/LIGHT] button to enable the snooze function. The alarm will stop, and will restart again after 8 minutes.
- c. Press any button except the [SNOOZE/LIGHT] button to completely stop the alarm and disable the snooze function.

10. HOW TO SET THE TEMPERATURE ALERT

This unit can be programmed to alert when the temperature of the location where the receiving unit or the remote sensor(s) are placed goes beyond or below a pre-determined temperature range.

- a. Press and hold the [ALERT] button for 2 seconds, the "🌡️" upper/lower and the "----" dash icons in the middle part of the LCD will start blinking. The receiving unit is now in the temperature alert setting mode.
- b. Press the [-] and [+ (°C/°F)] buttons to select the desired indoor or outdoor channel for which you wish to set the temperature alarm. Press the [ALERT] button to confirm the selection.
- c. The "🔺" upper limit and the "----" icons will start blinking. Press the [-] and [+ (°C/°F)] buttons to respectively decrease or increase the upper limit temperature for the range to the desired value. Press the [ALERT] button to confirm the selection.
- d. The "🔻" lower limit and the "----" icons will start blinking. Press the [-] and [+ (°C/°F)] buttons to respectively decrease or increase the lower limit temperature for the range to the desired value. Press the [ALERT] button to confirm the selection.
- e. To set temperature alert boundaries for other channels, repeat steps a to d.
- f. After setting the temperature range for the desired channel, the "🌡️" upper/lower icon will be displayed on the LCD. The temperature alert function is enabled. To disable this function, press the [ALERT] button once.

NOTE: If the temperature alert function is enabled, and the boundaries are not set, they will stay at their default value which are the following:

Receiving unit:	lower limit : 0°C (+32°F)	upper limit : +50°C (+122°F)
Remote unit:	lower limit : -50°C (-58°F)	upper limit : +70°C (+158°F)

When the temperature of a certain location goes beyond or below the pre-defined temperature range, the corresponding channel will start blinking and the buzzer will beep for 5 seconds. The alert will stop for 45 seconds, and beep again for 5 seconds. Press any button to stop this sequence.

11. RF REMOTE SENSOR WITH DETACHABLE PROBE (OPTIONAL)

- a. For more accuracy, when the outdoor temperature is below -20°C (-4°F), open the side rubber cover of the sensor and insert probe. Place the remote sensor unit indoors, and extend the 6-foot long probe cord so as to leave the probe outdoors.
- b. The detachable probe can also be used to measure the temperature of water, soil, or any other non-corrosive type of liquid.

12. BATTERY LEVEL INDICATORS

The receiving unit comes with battery level detectors. It continuously monitors the battery level of the main unit and all remote sensor units. When the receiving unit's batteries are low, the "🔋" low level battery icon will be displayed in the middle part of the LCD. When one of the remote sensor units' batteries are low, the "🔋" low level battery icon and the channel of the corresponding remote sensor will be displayed in the bottom part of the LCD.

NOTE: When replacing the batteries, in the receiving unit, please repeat all steps in point 3. When replacing the batteries, in any of the remote sensor units (if more than 1), please refer to point 13. It is important to note that new batteries are always to be used. Do not mix old and new batteries as the old ones may leak. Furthermore, in order to protect our environment, please dispose the old batteries promptly and properly. Please do not burn or bury them.

13. THE HOLD SEEK FUNCTION

Before replacing the batteries of any remote sensor unit, in order to have a quick re-registration, it is recommended to activate the hold seek function.

- a. Select the channel of the corresponding remote sensor which batteries need to be changed. Press and hold the [-] button for 3 seconds to activate the hold and seek function.
- b. The receiving unit will temporarily stop seeking the signal from the corresponding remote sensor, and will wait for a new signal registration.
- c. Replace the batteries in the corresponding remote sensor unit (see point 3 For the remote sensor unit). The remote unit will automatically transmit a new signal to the receiving unit that will set it to the corresponding channel.

This hold seek function eliminates the need to reset the receiving or to repeat the whole registration procedures when the batteries of a remote sensor unit have to be replaced.

14. ACTIVATE BACKLIGHT

Press the [SNOOZE/LIGHT] button to turn on the backlight for 5 seconds

15. RESET RECEIVING UNIT

Press the [RESET] button located inside the battery compartment of the receiving unit, so as to return all modes back to their before setting values.

16. INSTALLATION OF REMOTE SENSOR

Locating the remote sensor in a clear and open area, the range of transmission can go up to 30 meters. A building, or any other obstacles located between the receiving unit and the remote sensor unit may cause the transmission range to decrease. The remote sensor is designed for a variety of mounting options. The sensor can be hung on a flat wall by means of a screw or 2 sided tape, or it could stand on its own with its builtin stand.

17. TROUBLESHOOTING

If without obvious reasons the display for a particular channel suddenly becomes the dash icon (---), please check if:

- The remote unit of that corresponding channel is still in place.
- The batteries of both receiving and remote unit are still good. If not, replace them.
- The transmission range is within 30 meters (100 feet), and the path between receiving and remote sensor units is clear of obstacles and interference. Shorten the distance of transmission if necessary.
- Signals from other household devices, such as doorbell, home security system and entry controls may interfere with those of this product, and cause temporary failure of signal reception. This is normal and it does not affect the general performance of this product.

18. MAINTENANCE

- a. Do not clean the receiving unit or remote sensor unit with abrasive or corrosive substances.
- b. Do not immerse the receiving unit or remote sensor unit in water or any other liquid.
- c. Do not subject the receiving unit or remote sensor unit to excessive force, shock, dust, temperatures, or humidity.
- d. Do not subject the receiving unit or remote sensor unit to excessive exposure to direct sunlight or to heavy rain.
- e. Do not modify or tamper with the internal components of the receiving unit and remote sensor unit. Doing so may cause a malfunction of the units and might invalidate warranty.
- f. Read the instruction manual thoroughly before operating these units.

19. SPECIFICATIONS

Receiving unit operating temperature range:	0°C to +50°C (+32°F to +122°F)
Remote sensor operating temperature range:	-20°C to +50°C (-4°F to +122°F)
Detachable outdoor probe operating temperature range:	-50°C to +70°C (-58°F to +158°F)
Transmission range:	100 feet (30 meters) open space

(NOTE: Obstacles may cause this distance to shorten)

Battery:	
Receiving Unit:	DC 3V, 2XAAA batteries
Remote sensor:	DC 3V, 2XAAA batteries
Battery life:	
Receiving Unit:	12 months
Remote sensor:	6 months
Alarm signal duration:	1 minute
Snooze duration:	8 minutes

This device could be sensitive to any electrostatic discharge. If electrostatic discharge or malfunctioning occurs, please reset the units by removing the batteries, waiting a few seconds, and then re-installing the batteries.

Caution

The information in this document has been viewed and is believed to be accurate. However, neither the manufacturer nor its affiliates assume any responsibility for inaccuracies, errors, or omissions that may be contained herein. In no event will the manufacturer or its affiliates be liable for direct, indirect, special, incidental or consequential damages arisen by using this product or resulting from its any defect/omission in this document. Even if advised of the possibility of such damages. The manufacturer and its affiliates reserve the right to make improvements or changes to this document and the product, and services described at any time, without notice or obligation.

NOTE

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

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 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.

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.