

## Tempmate Wireless Thermometer – Speedtech Model EW-1 (with sensor model ET-1)

### Features:

- Indoor temperature (measured in display unit)
- Remote temperature (measured in remote sensor and transmitted to display unit)
- Temperature alarms for high and low (inside and remote)
- Time with offset for displaying second time location
- Alarm clock with snooze (8 minute)
- Backlight for viewing in dim lighting (push on, auto off)
- Maximum and minimum temperature memory
- Includes one remote sensor, up to three total possible (see your retailer for additional sensors)
- Detachable probe allows for measuring extreme temperatures or water, soil, or freezer

### Quick start (detailed instructions follow):

1. Remove battery covers on display unit and remote sensor
2. Insert batteries in display unit **first** \*\*important!
3. Insert batteries in remote unit(s) **within three minutes**
4. Replace battery covers, and wait five minutes before pressing any buttons. Set time (below) and select measuring units (press the “°C/°F/+” button to toggle).

### Detailed Battery Installation for the Display Unit

Please insert batteries for receiving unit before doing so for the remote units.

1. Remove the stand (if it is in place) by rotating the rear edge down.
2. Press and slide down to open the battery cover. Insert 2 pcs AAA size batteries with matching (+) and (-) polarity marks on battery compartment. Then close the battery cover and install the stand back.
3. (---) dash icon will flash on the lower part of the LCD; it is now ready to register with the sensor(s) signal.

### Detailed Battery Installation for the Remote Sensor Unit

Within three minutes of the battery installation of the receiving unit

1. Lift off the bracket stand by releasing the bottom two fixing snaps.
2. Use a small Phillips screwdriver to remove the screws on the battery cover.
3. Insert 2pcs AAA size batteries according to polarity mark on the battery compartment.
4. Once the batteries are inserted, the sensor will start transmitting temperature reading at 30 seconds intervals automatically to the receiving unit.
5. The lower part of LCD of the receiving unit will display remote channel 1 and the temperature reading.
6. For each additional sensor (if applicable), press and hold the “- (Hold Seek)” button until it beeps, then insert batteries in remote sensor(s).
7. When all sensors are registered, replace all battery covers.

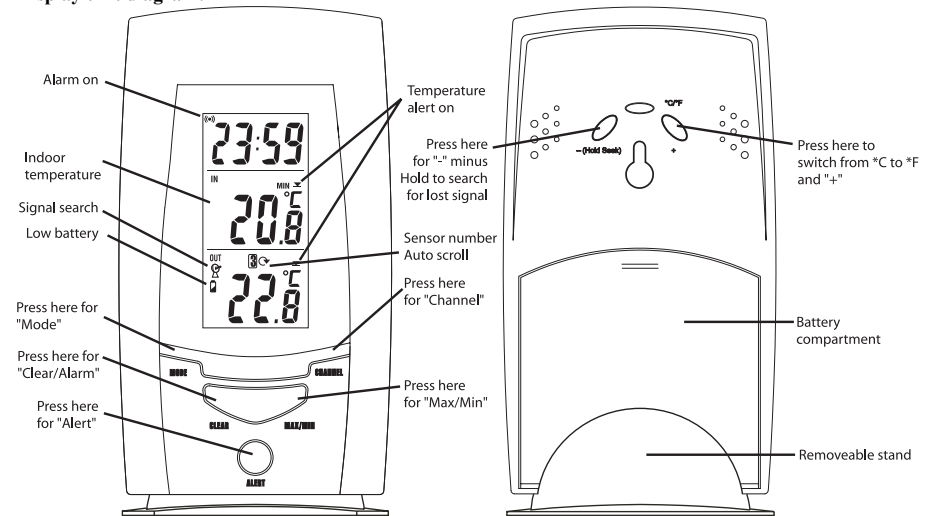
### Note

After you have placed the sensor in the remote location, if the (---) dash icon displays and flashes for one channel, the signal has been lost. Try rotating the sensor in 45° steps, and wait at least 3 minutes after each position change. If not, move the remote sensor closer to the receiving unit or reposition both receiving unit and remote sensor until reception is observed, or limit the obstacles (such as walls) that lie in a straight path from the sensor to the display. Also, be sure the display and sensor are away from possible sources of interference such as other wireless products (weather stations, phones, baby monitors).

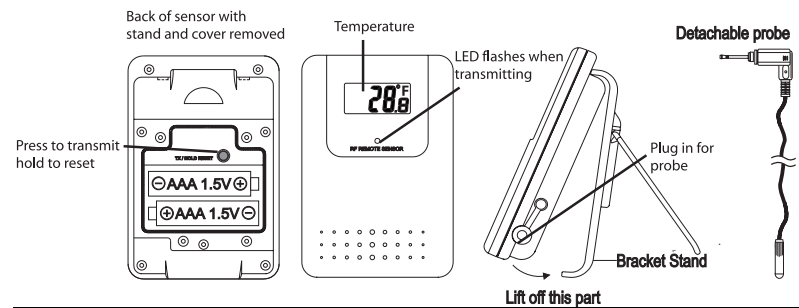
### Setting the Clock

1. To set the clock, press & hold “MODE” button for 2 seconds. The 12 or 24 hr. is blinking.
2. Use the “+” or “- (Hold Seek)” button to select 12 hr (am/pm) or 24 hr. (“military”) and then press “MODE”
3. The clock digits will blink, use “+” button to advance hour and “- (Hold Seek)” to advance minutes (each press the button will increase the digits by one). Press “MODE” to confirm.
4. The offset will blink. Repeat the same procedure to enter time offset (optional to view second time location)

### Display unit diagram:



### Remote sensor diagram:



### Using 6 foot Temperature Probe

Your wireless thermometer is equipped with a 6 feet cord temperature probe for measuring water, soil, or temperatures below 32°F.

- Open the rubber covers of the hole at the side of the remote sensor and insert the probe plug completely.
- If the outside temperature is extremely low (below 32°F) extend the 6 feet probe cord, leave probe sensor outside, and keep the remote sensor unit inside to avoid freezing the batteries.
- For measuring temperature in a freezer, keep sensor outside of freezer and run probe inside, taking care to secure the wire to avoid damage from the door. An alarm can also be set to warn of high temperature.
- The probe can be used at all times if desired (for air temperature) as it has a greater range of temperature.

### Installation of Remote Sensor(s)

It is recommended to place the sensor on the North side of a house to avoid direct sunlight. Locating remote sensor in clear open area can attain a maximum 100 ft. (30 meters) transmission distance. The actual transmission distance can be reduced by walls between the remote sensor(s) and the receiving unit. The remote sensor(s) can be hung on a flat wall by means of a screw or tape, or the bracket has a folding stand for use on a horizontal surface, such as a table.

### Remote Channel Auto Scroll

This device is equipped with and “G” Auto Scroll function that when 2 or 3 units of remote sensors are active, it will automatically cycle through the remote channels 1 to 3 continuously.

1. To enable or disable the “G” auto scroll function, press & hold “CHANNEL” button 3 seconds.
2. To retrieve manually the specific remote sensor temperature reading, press the “CHANNEL” button until desired channel is displayed.

### Minimum and Maximum Temperature Memory

This device records and displays min./max temperature readings for the receiver unit and remote sensor locations. (The remote min/max readings will be only shown for the channel actually on display.).

- To read min./max records for 5 seconds press “MIN/MAX” button.
- To erase the min or max record, press “CLEAR” button while viewing the min or max record

### Daily Alarm

1. Press “MODE” button once to enter daily alarm mode. Press & hold “ALERT” button for 2 seconds. The digits and “⊗” alarm icon will blink.
2. Press “+” button to advance the hours and press “- (Hold Seek)” button advance the minutes. Then press “MODE” button to confirm (if the mode
3. The “⊗” alarm icon will be displayed indicating that the alarm set above is now activated.
4. A short press “CLEAR” button to enable or disable the alarm.
5. When the alarm sounds beep, press “SNOOZE/LIGHT” button to temporarily stop the alarm for 8 minutes. To stop the alarm for 24 hours, press any button (except “SNOOZE/LIGHT” button).

### SNOOZE/LIGHT button

- Press the button once for backlight (auto turn-off after five seconds)

### + °C/°F button

- Press to select temperature readings in Celsius or Fahrenheit (the sensor’s LCD will always read in °F)

### Temperature alerts for Indoor Temp and each Remote channels procedure

This device can be programmed to alert that the temperature has gone above or below the set levels. This is useful for pools, spas, freezers, or to warn of frost. Separate alarms can be set for each location, and is constantly monitored, even if a different sensor number is displayed.

- a. Press “ALERT” button to enable or disable temperature alert. Press & hold “ALERT” button for 2 seconds to start setting. The alarm will sound if the temperature rises above the upper limit or falls below the lower limit.
- b. The “⊕” upper/lower icon will blink. Using “+” or “- (Hold Seek)” button to select Indoor, Channel 1, 2 or 3 (if 3 sensors are available). Press “ALERT” button to confirm. The “▲” upper limit and (--) icon will blink.
- c. Using “+” or “- (Hold Seek)” button to enter upper limit value. Press “ALERT” to confirm. The “▼” lower limit icon will blink.
- d. Using “+” or “- (Hold Seek)” button to enter lower limit value, and press “ALERT” to confirm.
- e. To set alert values for other registered channel, select the desired channel and repeat procedure from (a to d).

The “⊕” upper/lower icon appears and all alarms previously set for each channel and indoor become active when temperature alert is enabled. When alarm occurs, audible signal will beep and temperature and upper/lower icon will flash.

### Battery Replacement

A “D” low batter icon will appear on the display of the receiving unit when the batteries of the receiving unit and remote sensor(s) need to be replaced (the sensor also has a low battery indicator on its LCD). For replacing batteries always use new batteries, and follow instructions carefully (replace all batteries at this time).

### Precautions

Do not subject the units to excessive exposure to direct sunlight. The remote sensor is splash proof design, but should not be immersed in water or exposed to heavy rain. Do not clean the units with abrasive or corrosive compound or subject the units to excessive shock, dust, temperature or humidity. Do not tamper with these units’ internal components. Doing so will invalidate the warranty on the unit.

### Troubleshooting

**Lost Signal (“--”):** If unit has been in operation successfully, check to be sure remote is still functioning (LCD is lit, with no low battery signal). Position sensor and display closer, or limit number of walls that lie in a straight path between remote and sensor. Press and hold the “-/Hold Seek” button until the display beeps once (display will search for the signal and beep upon receiving). If this does not work, simply remove all batteries and replace with new batteries, closely following the instructions.

**Incorrect Temperature readings:** Be sure all units are away from sources of heat or cold, such as vents, radiators, and lights (including sunlight). Be sure probe is completely plugged or unplugged from sensor. Allow several minutes for units to adjust to a new temperature (such as bringing in from outside). The accuracy of temperature measurement is +/- 2°F, and keep in mind other thermometers may be inaccurate.

**Other issues:** If other issues arise, please remove all batteries and replace with new ones, carefully following the instructions. On occasion, as with all electronics, undesired occurrences take place. Removing the batteries and replacing with new ones will solve those problems. Your Speedtech Tempmate comes with particular testing sequences that can be activated with certain combinations of button presses. These combinations are not required for regular use, but can cause the units to appear to malfunction, and removing all batteries will solve these issues. You may refer to our website for more detailed explanations and further troubleshooting.

### Specifications

*Recommended remote sensor temperature operating/measuring range*

Indoor temperature range: +32°F to +122°F (0°C to +50°C); +/- 2°F (1°C)

Sensor with LCD display (without probe): +32°F to +122°F (0°C to +50°C); +/- 2°F (1°C)

Detachable outdoor probe: -58°F to +158°F (-50°C to +70°C); +/- 2°F (1°C)

#### Batteries

Thermometer station: Two size AAA (display/receiver)

Remote Sensor: Two size AAA (remote sensor)

Battery life (status): 6 to 9 months typical

Transmission range: Maximum 100 feet (30 meters) open area

Temperature sampling: Indoor - every 10 seconds - Outdoor - every 10 seconds

Temperature Transmission: Every 30 seconds

Transmission frequency: 433.92 MHz.

Clock: Quartz

### Warranty:

Speedtech’s Tempmate model EW-1 comes with a limited one-year warranty. Please refer to the help section located in this manual before contacting Speedtech with any technical assistance. For technical assistance, replacement parts, and/or to obtain a return authorization, please call 703-430-8055.

### FCC DISCLAIMER:

This equipment has been tested and found to comply with 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 instruction, 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

**Speedtech Instrument ~ 45449 Severn Way #165 ~ Sterling, VA 20166**  
**703-430-8055 ~ www.speedtech.com**