

ENCLOSED YOU WILL FIND

- Weather Station Wireless Thermometer (Receiver)
- Wireless Digital Remote Sensor (Transmitter)
- Mounting Screws

INTRODUCTION

Congratulations! You have purchased a quality digital calendar and clock combined with a digital thermometer that tracks the temperature and humidity level in two or more locations. When the Remote Sensor is mounted outside, the Weather Station stores a history of the temperature and humidity readings which it uses to estimate the weather. The Weather Station also shows the trend of temperature and humidity in the last several hours. The display includes a calendar showing the time, day and date as well as the current moon cycle. The Remote Sensor records the temperature and humidity, and transmits this data through a radio frequency signal to the Weather Station every 30 seconds or less frequently if the temperature and humidity are not changing. Both components have been developed for years of long-term operation when used in accordance with these instructions. Please save these instructions for future reference.

INSTALLING BATTERIES

1. Remove the rear cover of Weather Station and install 2 "AA" alkaline batteries. Replace rear cover. LCD will show channel, indoor temperature, indoor humidity and the clock/calendar will begin incrementing time.
2. Loosen 4 screws on rear battery cover of remote Remote Sensor and slide battery cover off. Install 2 "AA" alkaline batteries.
3. There is a small 3-channel switch inside the battery compartment. **Make sure this switch is set to channel 1. The Weather Station Thermometer only uses channel 1 for weather estimate and ice/snow functions.**
4. After batteries are installed, the Remote Sensor will begin transmitting and automatically register to the Weather Station (within range) after several minutes. However, you can also press the small button in the battery compartment (labeled Tx) to register the Remote Sensor to the Weather Station immediately.

5. Replace battery cover and tighten 4 battery screws. Make sure that the battery cover is fully tightened to assure a watertight seal.

MOUNTING THE REMOTE SENSOR

The Remote Sensor is suitable for outdoor mounting up to 100ft away from the Weather Station. For best results, mount the Remote Sensor vertically in a shaded area using the enclosed screw and as close as possible to the Weather Station. Placing the Remote Sensor in a horizontal position during heavy rains may lead to malfunction (due to water immersion).

1. Position the Remote Sensor at desired outdoor location.
2. Test the Remote Sensor at the desired location for 1 hour to see that the Weather Station can detect and display the temperature and humidity from this remote location. The Weather Station remote readings icons will display "--" for the humidity and "--" for temperature if the Remote Sensor is not registered. In this case, move the Remote Sensor and/or Weather Station closer together.
3. Mount the Remote Sensor at the desired location using the screw supplied.

THE WEATHER STATION LCD DISPLAY

Time, Calendar and Moon Cycle

- Time (24 hour or 12 hour format)
- Moon Cycle (each icon flashes in sequence and the icon representing the current cycle will remain fixed for a few seconds)
- Calendar (Month, Date, Day)

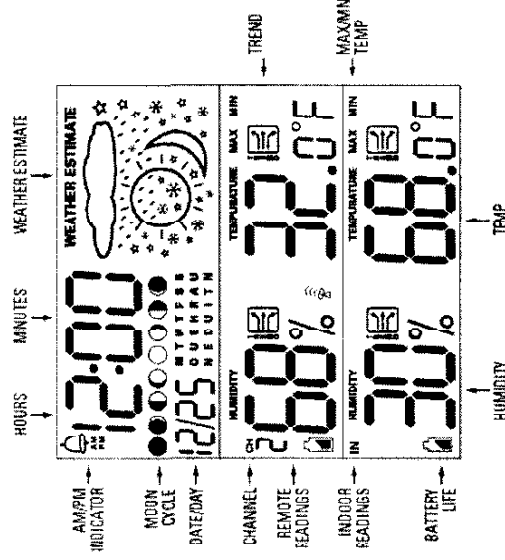
Weather Estimate

- Displays the estimated weather based on humidity and temperature readings from the Remote Sensor (channel 1) over the last 24 hours. Options are: Sunny, Partly Cloudy, Rain or Snow/Ice (if remote temperature is < 4 C (39 F) snowflakes flash, if remote temperature is < -1 C (30 F) snowflakes stay fixed)

Remote Readings

- Current channel (up to 3 Remote Sensor channels supported)
- Low battery indicator (battery status of Remote Sensor)
- Current temperature and humidity readings

- Daily maximum and minimum values of the temperature and humidity (reset each midnight)
 - Temperature and humidity trends (fixed, increasing or decreasing over the last 60 min)
 - Wave icon (flashes each time the Weather Station receives a signal from the Remote Sensor)
- ### Indoor Readings
- Low battery indicator (battery status of Weather Station)
 - Current temperature and humidity readings
 - Daily maximum and minimum values of the temperature and humidity (reset each midnight)
 - Temperature and humidity trends (fixed, increasing or decreasing over the last 60 min)



WEATHER STATION BUTTONS AND FUNCTIONS

BUTTON	PRESS TO...	HOLD 3 SECONDS TO...
<i>Front of unit:</i> SET		Program/adjust the calendar, time and current weather conditions (sequence: Year → Month → Date → Hour → Minute → 12/24hr → Current Weather Conditions → Exit)
AL	Read alarm time (for 5 seconds)	Program/adjust the alarm time (sequence: Hour → Minute → Exit)
+	Advance 1 step	Fast advance
-	Back up 1 step	Fast backward
CH	Select channel	Delete current channel
MIN/MAX	Read daily maximum and minimum recorded temperature and humidity	
ALARM OFF/ON	Slide switch to activate alarm	
<i>Back of unit:</i> C/F	Toggle between Celsius or Fahrenheit temperature display	

PROGRAMMING THE CALENDAR, CLOCK AND CURRENT WEATHER

1. Press and hold the SET button for three seconds to enter the programming mode. The year field will begin to flash in the display.

2. Press the + or - buttons to select the current year (hold down buttons for fast advance). Press the SET button once to confirm. The month field will begin to flash in the display.

3. Press the + or - buttons to select the current month. Press the SET button once to confirm. The date field will begin to flash in the display.

4. Press the + or - buttons to select the current date. Press the SET button once to confirm. The hour field will begin to flash in the display.

5. The default hour format is military (24-hr). Press the + or - buttons to select the current hour (e.g. 200pm = 14:00 in military format). Press the SET button once to confirm. The minute field will begin to flash in the display.

6. Press the + or - buttons to select the current minute. Press the SET button once to confirm. The hour format field will begin to flash in the display.

7. The Weather Station can display hours in standard 12-hr format (AM and PM) or in military format (24-hr). The default hour format is 24-h. Press the + or - buttons to select the preferred hour format. Press the SET button once to confirm. The Weather Estimate field will begin to flash in the display.

8. Press the + or - buttons to select the best estimate of the current weather (clear, partly cloudy or rain/snow). Press the SET button once to confirm. The Weather Station is now fully programmed and ready for use.

NOTE: The Weather Estimate is based on commonly used algorithms for predicting weather using the current weather and on outdoor temperature and humidity trends over the last 24 hours. For this function to work properly, it is critical that the Remote Sensor be mounted outside. However, like any weather prediction, the estimate may not always be accurate. To improve accuracy, it may be useful to periodically reset the weather estimate to the current conditions. Do not use the weather estimate alone for event planning, always confirm the predicted weather with radio or TV broadcasted weather reports.

SETTING THE ALARM

1. Press and hold the AL button for three seconds to enter the alarm set mode. The alarm hour field will begin to flash in the display.
2. Press the + or - buttons to select the desired alarm hour (hold down buttons for fast advance). Press the AL button once to confirm. The alarm minute field will begin to flash in the display.
3. Press the + or - buttons to select the desired alarm minute. Press the AL button once to confirm. The Weather Station alarm is now programmed.

ACTIVATING THE ALARM

The slide switch on the top of the Weather Station has an ON and OFF setting. Press the AL button to display the time that the alarm is currently set for (alarm time will show for 5 seconds).

1. Move the slide switch to the ON position. The alarm will activate every day (every 24 hrs) at the programmed alarm time.
2. When the alarm activates, pressing ANY button will disable it until the next day. If no button is pressed, the alarm will disable automatically after 60 seconds.
3. To deactivate the alarm indefinitely, move the slide switch to the OFF position.

MONITORING MULTIPLE REMOTE SENSORS

The Weather Station can monitor up to three different Remote Sensors on three separate channels. Add-on Remote Sensors can be purchased separately. Note, the Remote Sensor included with this product is NOT compatible with the GE Wireless Thermometer (model GE5805WS1), or the GE Wireless Thermometer/Alarm Clock (model GE5805WS2). Add-on Remote Sensors should be set to channel 2 and/or channel 3 when the batteries are installed (see INSTALLING BATTERIES).

If you have two or three separate Remote Sensors, you can select which Sensor's temperature and humidity transmission you wish to display by pressing the CHANNEL button.

NOTE: Channels 2 and 3 will only display if the Weather Station has registered a second and third Remote Sensor.

DISPLAYING MAXIMUM AND MINIMUM TEMPERATURE AND HUMIDITY

The Weather Station stores the daily minimum and maximum temperatures from both its internal sensor and the Remote Sensors. This information can be useful for determining the proper thermostat settings in a remote bedroom, or tracking if frost conditions have occurred outside during the night. The maximum and minimum temperature and humidity automatically reset at midnight every day.

Press the MIN/MAX button once to read the maximum temperature and humidity recorded since midnight for the Weather Station and the Remote Sensor. The display will show this for 5 seconds then return to current conditions.

Press the MIN/MAX button twice in sequence to read the minimum temperature and the humidity over the same period.

TEMPERATURE AND HUMIDITY TRENDS

The Weather Station display will indicate the temperature and humidity trends over the last 60 minutes.

An increasing trend line occurs if the average temperature (humidity) increases by more than 1 deg C (3% humidity) over the last 60 minutes. A decreasing trend line occurs if the average temperature (humidity) decreases by more than 1 deg C (3% humidity) over the last 60 minutes.

WEATHER ESTIMATE

The Weather Station's weather estimate icons will update periodically based on changes in the humidity and temperature over a running 24 hour period. Note: This function only provides an estimate of the weather based on current and past temperature and humidity trends. Flashing snow icons will replace the rain icons when temperatures at the remote sensor fall below 4 deg C (39 deg F). Snow icons will stay fixed when temperatures fall below: 1 deg C (30 deg F). The Moon icon will replace the Sun icon from 9:00 pm. to 5:00 a.m. each day.

CELSIUS AND FAHRENHEIT

The Weather Station can display the temperature in Fahrenheit or Celsius. To toggle between Fahrenheit or Celsius display units, press the C/F button on the rear of the Weather Station.

CLEARING CHANNELS

The Weather Station is designed to register signals from Remote Sensors (model GE505WS3) within range. Remote Sensors transmit temperature and humidity every 30 seconds or less frequently if no changes have occurred. Each time the Remote Sensor transmits, the red LED on the front surface will flash briefly. When the Weather Station receives a valid signal, it will briefly display a radio wave symbol and update the temperature and humidity on the display. Once a channel is registered, the Weather Station remembers that channel and will only accept signals from this Remote Sensor. Each channel has 64 unique sub-codes to avoid interference with other GE505WS3 remote sensors using the same channel.

To clear any channel:

1. Press the CH (channel) button until the desired channel is displayed.
2. Hold the CH button until the temperature and humidity display is cleared.

LOW BATTERY INDICATOR

When either the Remote Sensor or Weather Station begin to lose battery power, low-battery icons will show up in their respective lower left portion of the display. To maintain the registered channels, it is advised that the batteries in both units be replaced at the same time as specified in **INSTALLING BATTERIES**.

SPECIFICATIONS

Weather Station

Power Source.....2 "AA" Alkaline batteries (3VDC)
Battery Life.....Approximately 1 year
(with new Alkaline batteries)
Temperature Range.....0 to 50°C (32 to 122°F)
Temperature Accuracy.....within +/- 1.0°C (within +/- 1.8°F)***

Temperature Resolution.....0.1 degree
Relative Humidity Range.....5 to 99%
Relative Humidity Accuracy.....within +/- 5%***
Relative Humidity Resolution.....1%

Remote Sensor

Power Source.....2 "AA" Alkaline batteries (3VDC)
Battery Life.....Approximately 1 year
(with new Alkaline batteries)
Operational RF Range.....>50 ft. and up to 100ft)*
RF Frequency.....433MHz
Temperature Range.....-50 to 60°C (-58 to 140°F)**
Temperature Accuracy.....within +/- 1.0°C (within +/- 1.8°F)***
Temperature Resolution.....0.1 degree
Relative Humidity Range.....5 to 99%
Relative Humidity Accuracy.....within +/- 5%***
Relative Humidity Resolution.....1%

(*) The range can be adversely affected by many factors including weather, temperature, radio interference and obstacles in the line of sight between the remote sensor (transmitter) and the thermometer (receiver).

(**) Alkaline batteries can freeze temporarily at temperatures below 20°C. In this condition, the Remote Sensor cannot accurately transmit temperature information to the Thermometer. This limits the effective minimum temperature for the Remote Sensor to -20°C (-4°F).

(***) From 0 to 40°C (32 to 104°F). The accuracy may decrease slightly at temperature extremes.

(****) From 20 to 80°F. The accuracy may decrease slightly at humidity extremes.

Modifications not authorized by the manufacturer may void users authority to operate this device.

The 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, this 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 tuning 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.

WIRELESS

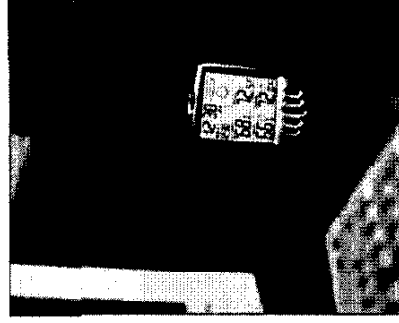


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Indoor & Outdoor



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Desc.: GE585WS3

INSTRUCTION MANUAL