



## DIGITAL TEMPERATURE & HUMIDITY MONITOR WITH WEATHER ICONS

### Model No. 91478 Instruction Manual



### FEATURES AND SPECIFICATIONS

- Monitors indoor and outdoor temperature in °F or °C format
- Memory function to recall min/max temperature readings
- Indoor hygrometer
- Indoor / outdoor temperature range: -58°F to 158°F (-50°C to 70°C)
- Temperature tolerance: +/- 2°F (+/- 1.1°C)
- Humidity range: 20% to 90%
- Humidity tolerance: +/- 5% at 30% to 79%, +/- 8% at 20%-29% and 80%-90%
- Programmable high / low temperature and humidity alert
- Graphic weather icons: sun/ sun & clouds / rain
- Weatherproof 6 ft. sensor probe wire
- Clock: 12/24 hour selectable with alarm and snooze
- Month / Day calendar
- Moon phase icons
- Table top or wall mount
- Requires (2) AAA batteries

### BATTERY INSTALLATION

- Slide the battery door at the back of the unit down and remove.
- Insert (2) AAA batteries according to the polarity markings.
- Replace the battery door.

#### *Notes:*

- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon zinc), or rechargeable (nickel cadmium) batteries.

- For maximum performance we recommend using good quality alkaline batteries.
- This unit can operate on one battery, but it is recommended that you use two for optimum performance and for extended battery life.
- To retain the settings in your weather monitor when replacing the batteries, remove one old battery first and replace it with a new one, then remove the second old battery and replace it with a second new one.

## **OPERATING INSTRUCTIONS**

### ***C/F Selection***

- Press the C/F button to display the temperature in °Celsius or °Fahrenheit.

### ***Setting the Time***

- Press the SET button for 3-4 seconds until 12 or 24 hr is flashing.
- Press MAX/MIN to select 12 or 24 hour timing.
- Press SET and the minutes will be flashing.
- Press MAX/MIN to set the minutes.
- Press SET and the hour will be flashing.
- Press MAX/MIN to set the hour.
- Press SET to lock in the settings.

### ***Setting the Date***

- Press the MODE button until the date is displayed.
- Press SET for 3-4 seconds until the year is flashing.
- Press MAX/MIN to set the year.
- Press SET and the day will be flashing.
- Press MAX/MIN to set the day.
- Press SET and the month will be flashing.
- Press MAX/MIN to set the month.
- Press SET to lock in the settings.
- After 5-10 seconds the LCD will return to time display.
- To view the date, press MODE until the date is displayed.

### ***Setting the Alarm and Hourly Alert***

When activated, the alarm will sound at the pre-set time every day until de-activated and the hourly alert will beep once on the hour every hour until de-activated.

- Press the MODE button until the alarm time is displayed.
- Press SET for 3-4 seconds until the alarm time is flashing.
- Press MAX/MIN once to display the bell icon. \*\*See *Notes* below
- Press SET and the minutes will be flashing.
- Press MAX/MIN to set the minutes.
- Press SET and the hour will be flashing.
- Press MAX/MIN to set the hour.
- Press SET to confirm the settings.
- The alarm is set and within 5-10 seconds the display will revert to current time.

- The alarm bell icon will be displayed and the alarm will sound at the pre-set time every day until de-activated.

**Notes:**

\*\*There are 4 possible combinations of alarm and hourly alert settings;

- 1) alarm only (press MAX/MIN once)
- 2) hourly alert only (press MAX/MIN twice)
- 3) both alarm and hourly alert (press MAX/MIN three times)
- 4) neither alarm or hourly alert (press MAX/MIN four times)

***Snooze Function and Silencing the Alarm***

- When the alarm sounds press MODE to silence the alert or press SNOOZE to activate the snooze function.
- When snooze is activated the Zz symbol will appear and the alarm will sound every 5 minutes.
- When the alarm sounds again, press SNOOZE to continue the snooze function or press MODE to silence the alert and discontinue the snooze function.
- The alarm icon will remain on the display and the alarm will sound every day at the pre-set time until the alarm is de-activated.

***De-activating the Alarm or Hourly Alert***

- Press MODE until the alarm time is displayed.
- Press SET for 3-4 seconds until the alarm time is flashing.
- Press MAX/MIN one to four times to delete or display your desired alarm or hourly alert icons.
- Press SET to lock in the setting.

**LOCATING THE MONITOR**

- Choose a suitable place for the temperature / humidity monitor away from direct sunlight or sources of heat or air conditioning to ensure accurate temperature readings.
- Route the sensor wire through a nearby window to record outdoor temperatures.

**VIEWING INDOOR OR OUTDOOR TEMPERATURE**

The IN or OUT icon is shown at the top right of the temperature display. To make your selection;

- Press the MODE button 5 times until the In or Out icon is flashing on the temperature display.
- Press MAX/MIN to view either indoor or outdoor temperature.
- Press MODE to lock in the setting.

**MOON PHASE**

The moon phase icon is programmed into the unit and will display according to the time and date. This setting can not be changed manually.

**WEATHER ICONS**

The weather icons are controlled by the humidity at the base station as follows;

<45% humidity = sun icon

45% - 55% humidity = sun & clouds icon

>55% humidity = rain icon

The humidity range is 20% to 90%. If the humidity level exceeds these limits “EE” will show on the humidity display.

## **VIEWING THE MAXIMUM AND MINIMUM RECORDS**

- Press the MAX/MIN button once to display the maximum temperature and humidity recorded since the last reset.
- The MAX icon will be displayed
- Press the MAX/MIN button again to display the minimum temperature and humidity recorded since the last reset
- The MIN icon will be displayed
- These records are perpetual and can only be cleared by resetting the unit. See below under SYSTEM RESET.
- If you reset the system to clear the maximum and minimum records, all other data must be re-entered. (See OPERATING INSTRUCTIONS)

## **TEMPERATURE AND HUMIDITY ALERTS**

When either the indoor or outdoor temperature or humidity exceeds the upper or lower pre-set limits, the LOW or HIGH icon will be shown flashing on the display.

Note: For the outdoor alert to function, the outdoor temperature must be displayed on the screen.

For the indoor alert to function, the indoor temperature must be displayed on the screen.

### ***Setting the Low Temperature and Low Humidity Alert***

- Press MODE until “Lo Temp Mode” is shown on the temperature display.
- Press SET for 3-4 seconds until “Lo Temp Mode” is flashing.
- Press MAX/MIN until “Low” is flashing on the temperature display.
- Press SET and the temperature display will be flashing.
- Press MAX/MIN and set your desired low temperature alert level.
- Press SET and “Lo Humi Mode” will be flashing.
- Press MAX/MIN and “Low” will be flashing.
- Press SET and the humidity display will be flashing.
- Press MAX/MIN to set the low humidity alert level.
- Press SET to lock in the settings.
- Within 5-10 seconds the display will revert to the normal screen and the LOW icon will be displayed to indicate the low temperature / humidity alert is activated.

### ***De-activating the Low Temperature and Humidity Alerts***

- Press MODE three times until “Lo Temp Mode” is displayed.
- Press SET for 3-4 seconds until “Lo Temp Mode” is flashing.
- Press ADJUST until the LOW icon is no longer displayed.
- The alert is de-activated.

### ***Setting the High Temperature and High Humidity Alert***

- Press MODE until “Hi Temp Mode” is shown on the temperature display.
- Press SET for 3-4 seconds until “Hi Temp Mode” is flashing.
- Press MAX/MIN until “High” is flashing.

- Press SET and the temperature display will be flashing.
- Press MAX/MIN and set your desired high temperature alert level.
- Press SET and “Hi Humi Mode” will be flashing.
- Press MAX/MIN and “High” will be flashing.
- Press SET and the humidity display will be flashing.
- Press MAX/MIN to set the high humidity alert level.
- Press SET to lock in the settings.
- Within 5-10 seconds the display will revert to the normal screen and the HIGH icon will be displayed to indicate the high temperature / humidity alert is activated.

***De-activating the High Temperature and Humidity Alert***

- Press MODE times until “Hi Temp Mode” is displayed.
- Press SET for 3-4 seconds until “Hi Temp Mode” is flashing.
- Press ADJUST until the HIGH icon is no longer displayed.
- The alert is de-activated.

**SYSTEM RESET**

If your temperature and humidity monitor is subject to electrical interference or there is any type of malfunction, you can return the unit to the original settings by using the reset function. Insert the end of a paper clip into the RESET hole located at the back of the unit and push the button. See OPERATING INSTRUCTIONS to re-enter your settings.

**LIMITED WARRANTY**

Springfield warrants this product to be free from defects in workmanship or material for a period of one year from the date of purchase. **ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF FITNESS AND MERCHANTABILITY ARE HEREBY LIMITED IN DURATION TO A PERIOD ENDING ONE YEAR FROM THE DATE OF PURCHASE.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, which vary, from state to state. During the warranty period, such defects will be repaired or the defective instrument will be replaced at our option. This warranty does not cover damages through accident or misuse. **IN ADDITION, SPRINGFIELD IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES INCURRED AS A RESULT OF DEFECT.** Repair or replacement will be made at our option without additional charge if the instrument is returned postpaid with \$4.00 for return postage and handling to:



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