SPRINGFIELD®

PRECISE TEMP™
WIRELESS MULTI-ZONE
THERMOMETER and HYGROMETER
With CLOCK

Model No. 91756
User's Manual

BASE STATION   REMOTE SENSOR

FEATURES AND SPECIFICATIONS

BASE STATION
- Indoor / wireless outdoor temperature, ºC / ºF selectable
- Indoor / wireless outdoor humidity
- Memory function to recall min/max temperature and humidity readings
- Temperature trend indicators
- Can accept up to 3 remote temperature and humidity sensors
- Remote channel auto-scroll
- Programmable high/low temperature alert
- Heat index readings
- 12/24 hour clock with alarm
- Calendar
- Countdown timer - 23 hours, 59 minutes, 59 seconds
- Low battery indicators for base station and remote
- Indoor temperature range: 14ºF to 158ºF (-10ºC to 70ºC)
- Indoor humidity range: 20% to 95%
- Tabletop easel stand or wall mount
- Uses (2) AAA batteries (not included)

REMOTE SENSOR
- 433 MHz wireless transmission frequency
- Wireless data transmission to base station up to 100 ft. (range may vary based on the amount of interference present)
- LCD readout showing temperature and humidity
- Outdoor temperature range without wire probe: -4ºF to 158ºF (-20ºC to 70ºC)
- Outdoor temperature range with wire probe: -40ºF to 158ºF (-40ºC to 70ºC)
- Outdoor humidity range: 20% to 95%
- Table or wall mount
- Uses (2) AAA batteries (not included)
- Temperature tolerance: +/- 2ºF (+/- 1.1ºC)
- Humidity tolerance: +/- 5% at 30% to 90%; +/- 7% at 20% to 29% and 91 to 95%

BATTERY INSTALLATION AND SET-UP

Notes:
- Always replace all batteries at the same time; do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc) or rechargeable (ni-cad, ni-mh, etc.) batteries.
- For maximum performance in normal conditions we recommend using good quality alkaline batteries. When temperatures are near or below freezing (32°F / 0°C), alkaline batteries can lose power resulting in a loss of remote transmission. If you reside in an area that experiences frequent temperatures near or below freezing, we recommend using lithium batteries to minimize the loss of transmission. (See additional notes in *Locating the Base Station and Remote Sensor* below.)

NOTE: please recycle or dispose of batteries per local regulations.
WARNING: Batteries may pose a choking hazard. Do not let children handle batteries.
PRECAUTION: Do not dispose of batteries in fire. Batteries may explode or leak. Remove the batteries if the thermometer or remote sensor will not be used for a long period of time.

Base Station Battery Installation
- Remove the printed static cling label from the LCD screen of the base station.
- Position the remote sensor near the base station.
- Open the battery compartment on the back of the base station and insert (2) AAA batteries according to the polarity markings. Replace the battery compartment cover.
- Within a short time the RF signal icon 📶 (located near the outdoor humidity reading) will start flashing. This indicates that the base station is ready to pick up the RF signal from the remote sensor. It will continue to flash for 3 minutes or until the signal from the remote sensor is detected.

Register the Remote Sensor
- Open the battery compartment on the back of the remote sensor and slide the channel selector switch to your desired channel. For the first remote you may select any channel, for additional remotes select any unusual channels.
- Insert (2) AAA batteries according to the polarity markings. Be sure to install the batteries in the remote within the time that the RF signal icon is flashing on the base station. If the icon is not showing, press and hold **CHANNEL** for 3-4 seconds until the icon is showing.
- Press the **ºC/ºF** button inside the remote sensor battery compartment to display the temperature in ºC or ºF.
- Once you see the outdoor readings on the base station the set-up is complete. Replace the battery compartment cover.
- Press the **UP/C/F** button at the back of the base station to display the temperature in ºC or ºF.
- Press **CHANNEL** to select the remote channel you want displayed permanently on the base station or keep pressing **CHANNEL** until you observe a circular arrow © on the base station LCD screen under the channel number. The unit will then auto-scroll, continually changing from channel to channel.
- Occasionally you may experience interference on a particular channel; if your base station has trouble picking up the RF signal, remove the batteries from the remote sensor, slide the channel selector switch to another channel and reinstall the batteries.
  Note: The **TX** button inside the remote sensor battery compartment is for factory testing; you will not need to use it.

Locating the Base Station and Remote Sensor
- Choose a suitable place for the base station and remote outdoor sensor, within the transmission distance.
- Place the base station near a window but away from direct sunlight or sources of hear or air conditioning to ensure accurate temperature readings. The remote sensor is water resistant but not waterproof. Locate the sensor out of direct sunlight in an area where it will not be exposed to rain, snow or ice.
- The location you choose is critical for maximizing the transmission range. The remote sensor is designed to transmit up to 100 ft. unimpeded. Although the RF signal may travel through solid surfaces or objects, transmitting through wall, metal doors, metal framed windows, thick concrete, stone or brick, may reduce the transmission range. To optimize the transmission distance, the base and remotes should be positioned in locations that minimize these obstructions. Interference from other sources such as home security systems, wireless doorbells and wireless home entertainment equipment may interrupt the transmission signal temporarily.
- In areas of extreme low temperatures (below 0ºF) re-locate the remote sensor indoors and use a remote sensor wire. The sensor wire is not included with the unit and can be purchased separately by contacting Springfield Precision Instruments at 1-866-843-3905. Plug the sensor wire into the remote and route the wire through a nearby window. Be sure to plug in the wire securely. **Note:** The sensor wire will transmit outdoor temperature only, not humidity.

OPERATING INSTRUCTIONS

MODE BUTTON
Starting from the normal time display, press **MODE** to scroll through Alarm time 1 (A1), Alarm time 2 (A2), Timer, back to normal time display.

Note: When entering your settings, you can press and hold the **UP** and **DOWN** button for fast setting.

SETTING THE CLOCK AND CALENDAR
- Press and hold the **SET/AL** button until the hour is flashing
- Press **UP** or **DOWN** buttons to adjust the hour
- Press **SET/AL** and the minutes will be flashing
- Press **UP** or **DOWN** to adjust the minutes
- Press **SET/AL** and the month will be flashing
- Press **UP** or **DOWN** to adjust the month
- Press **SET/AL** and the day will be flashing
- Press **UP** or **DOWN** to adjust the day
- Press **SET/AL** and the year will be flashing
- Press **UP** or **DOWN** to adjust the year
- Press **SET/AL** to lock in the settings

12/24 Hour Clock
Press **DOWN 12/24** to select either 12 hour or 24 hour clock display

Display the Calendar
Press **SET/AL** to scroll through:
         1) normal time display (hour / minute / day)
         2) hour / minute / second display
         3) calendar
         4) normal time display

ALARM CLOCK WITH SNOOZE

Setting the Alarm Time

Two different alarm times can be set. Alarm 1 and Alarm 2. Use **MODE** to scroll to Alarm 1 (A1) or Alarm 2 (A2).

- To set Alarm 1; In normal time display, press the **MODE** button once and the Alarm 1 time and (A1) will show
- Press the **SET/AL** button for 3-4 seconds until the alarm hour flashes
- Press **UP** or **DOWN** to set the alarm hour
- Press **SET/AL** and the minutes will be flashing
- Press **UP** or **DOWN** to set the alarm minutes
- Press **SET/AL** to lock in the settings The alarm is now activated and the alarm bell icon will show next to the time
- Press **MODE** to get Alarm 2 or to return to normal time display
- If no buttons are pressed within 20 seconds, the unit will revert to the normal time display automatically
- To set Alarm 2: When Alarm2 (A2) is showing on the display, follow the same set-up sequence as for Alarm 1

De-activating the Alarm

To de-activate an alarm, press **MODE** to choose the alarm (A1 or A2) that you want to de-activate. Press **SET/AL** until the alarm bell icon is no longer showing. Your alarm time settings will remain and you can re-activate the alarm by following the instructions below.

Activating the Alarm

Press the **MODE** button to choose the alarm (A1 or A2) that you want to activate. Press **SET/AL** to activate (the alarm bell icon and 1 or 2 will show). The alarm will sound at the time you have entered.

Silencing the Alarm

- When the alarm sounds press any button on the base station to silence the alert or press **SNOOZE** to activate the snooze function.
- When snooze is activated the Zzz symbol will appear and the alarm will sound again in 5 minutes.
- When the alarm sounds again, press **SNOOZE** to continue the snooze function or press any button on the base station to discontinue snooze.
- 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.

MAX / MIN MEMORY

Use the **MAX/MIN** button to display the highest and lowest indoor and outdoor temperature and humidity readings since the last reset.

- Press **MAX/MIN** once to display the highest readings recorded since last reset. MAX is on display.
- Press **MAX/MIN** a second time to display the lowest readings recorded since last reset. MIN is shown on the display.
- Press **MAX/MIN** to return to the normal display.
- To clear and reset the max/min records, when either the MAX or MIN record is shown on the LCD screen, press and hold **MAX/MIN** for 3-4 seconds until the beep sounds.

TEMPERATURE ALERTS

You can program your weather center to sound an alert whenever the indoor or outdoor temperature exceeds the upper or lower pre-set level. The outdoor alert can be set for any remote channel.

Setting the Indoor Temperature Alert

- Press and hold the **ALERT** button for 3-4 seconds. The high temperature limit icon ▼ and indoor temperature will be flashing.
- Press **UP** or **DOWN** to select the high temperature alert level.
- Press **ALERT** and the low temperature limit icon ▼ and temperature will be flashing.
- Press **UP** or **DOWN** to select the low temperature alert level.
- Press **ALERT** to lock in the settings. The temperature alerts are activated and both the low and high limit icons will be showing.

Setting the Outdoor Temperature Alert

- Press and hold the **ALERT** button for 3-4 seconds.
- Press **CHANNEL** to select the channel on which you want to set the alert (1, 2, or 3).
- The high temperature limit icon and outdoor temperature for the channel you selected will be flashing.
- Press **UP** or **DOWN** to select the high temperature alert level.
- Press **ALERT** and the low temperature limit icon and temperature will be flashing.
- Press **UP** or **DOWN** to select the low temperature alert level.
- Press **ALERT** to lock in the settings. The temperature alerts are activated and both the low and high limit icons will be showing.

Activating and De-activating the Temperature Alerts

- Press **ALERT** to activate or de-activate the temperature alerts. When the alert function is activated both the high and low limit icons will show.
- When de-activated your temperature alert settings will remain and can be re-activated at any time.

HEAT INDEX

Heat Index is the "feels like", or apparent temperature. It is a function of temperature and humidity. As relative humidity increases, the air seems warmer than it actually is because the body is less able to cool itself via evaporation of perspiration. The HEAT INDEX temperature is usually higher than the actual air temperature.

Press the **HEAT INDEX** button to view the readings. **HI** will show above the indoor and outdoor temperature readings.

COUNTDOWN TIMER

To set the countdown timer:

- Press **MODE** until you get to the timer display
- Press and hold **SET/AL** until the hours are flashing
- Press **UP** or **DOWN** to set the hours
- Press **SET/AL** and the minutes will be flashing
- Press **UP** or **DOWN** to set the minutes
- Press **SET/AL** and the seconds will be flashing
- Press **UP** or **DOWN** to set the seconds
- Press **SET/AL** to lock in the settings
- Use **SET/AL** to start, pause and restart the timer
- When the timer sounds, press any button to turn it off

TEMPERATURE TREND ARROWS

The arrows to the left of the indoor and outdoor temperature readings indicate the general temperature trend; increasing, stable or decreasing.

LOW BATTERY INDICATORS

Low battery indicators are located on the base station display near the outdoor temperature reading (for the remote sensor) and near the indoor temperature reading (for the base station). When a low battery icon appears, replace the batteries as soon as possible with a fresh set according to the *BATTERY INSTALLATION AND SET-UP* section of this manual.
Note: When the old batteries are removed from the unit, you will lose your clock, alarm and temperature alert settings.

PURCHASING ADDITIONAL REMOTE SENSORS

Additional temperature sensors may be ordered directly from Springfield Precision Instruments by calling 1-866-843-3905. The remote sensor for this unit is SPRINGFIELD model 91661.
(Please note: this sensor will transmit temperature readings only, not humidity.)

FCC STATEMENT OF COMPLIANCE

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: 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. 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 radio 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.

ONE (1) YEAR LIMITED WARRANTY

This product is warranted against defects in materials or workmanship (excluding batteries) for one (1) year from date of original purchase for the original purchaser. It does not cover damages or wear resulting from accident, misuse, abuse, commercial use, or unauthorized adjustment and/or repair. Should this product require service (or replacement at our option) while under warranty, do not return to retailer. Please pack the item carefully and return it prepaid, along with store receipt showing date of purchase and a note explaining reason for return to:

Taylor Precision Products, Inc. / Springfield Precision
2220 Entrada Del Sol, Suite A
Las Cruces, New Mexico 88001
1-866-843-3905
www.springfieldprecision.com

There are no express warranties except as listed above. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For additional product information, or warranty information outside the USA, please contact us through www.taylorusa.com or www.springfieldprecision.com.

Made to our exact specifications in China.

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