

## **FEATURES**

- receives and displays temperature readings from up to 4 remote
- transmitters via RE technology of 433MHz
- \* temperature trend indicator
- \* temperature trend indicator
  \* local/remote temperature alarms
  \* day/night icon
  \* user-selectable °C or °F
  \* battery type: 2 x AA
- Remote Transmitter WT440:

  \* drip-proof design with LCD screen

  \* temperature display in user-selectal
- transmission range: up to 40 metres in open area \* table stand or wall mountable
- \* battery type: 2 x AA

# WS222 + WT440 **Wireless Weather Station** WS222 receiver . 28s (I)

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NOTE: Min/Max readings are automatically cleared daily at 00:00

Press CHN to view the minimum or maximum temperatures of the

Steady

The trend indicator shows the trend of the temperature

Rising

TEMPERATURE DISPLAY

Min and Max Temperature

Press MIN in the Clock mode to display

the minimum temperature.

The MIN symbol will appear. To return to normal temperature

the maximum temperature. The MAX symbol will appear.

display, press MAX again.

Temperature Trend

temperature is rising.

Arrow Indicator

Trend

Example:

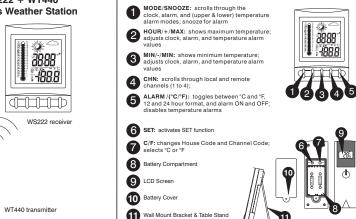
in the past half-hour interval.

The following indicates that the

To return to normal temperature

local and remote channels 1 to 4.

display, press MIN again. Press MAX in Clock mode to display



**BUTTON PLACEMENT** 





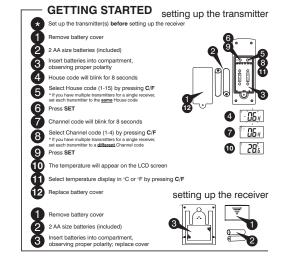
The temperature alarm is an ideal feature to be used for greenhouses and wine cellars, or any place that you require controlled temperature. Once activated, the temperature alarm would sound when the room gets too warm or too cold depending on your settings.

- You can set both an upper and lower temperature alarm for the local temperature (main receiver unit) and/or for each of the remote (outdoor) channels of 1 to 4.
- UPPER TEMPERATURE LIMIT: If the temperature gets too warm and reaches the upper temperature limit, the alarm would sound
- LOWER TEMPERATURE LIMIT: If the temperature gets too cold and reaches the lower temperature limit, the alarm would sound.

#### Setting the Upper Temperature Alarm

- Scroll to the Upper Temperature Alarm Setting mode by pressing MODE. You should see the symbol and dotted lines (---) or pre-existing settina blink.
- Select the desired channel, local or remote channels (1 to 4) using CHN.
- Press + or key to set the desired value for the upper temperature limit.
- To disable the particular alarm, press ALARM. The dotted lines ( - - - ) would reappear to indicate that the alarm has been disabled.
- Press MODE to finish; or repeat steps for all other channels if desired.





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#### TEMPERATURE ALARM

#### Setting the Lower Temperature Alarm

- Scroll to the Lower Temperature Alarm Setting mode by pressing MODE. You should see the y symbol and dotted lines (---) or pre-existing
- Select the desired channel, local or remote channels (1 to 4) using CHN.
- Press + or key to set the desired value for the lower temperature limit.
- To disable the particular alarm, press ALARM. The dotted lines ( - - - ) would reappear to indicate that the alarm has been disabled
- Press MODE to finish; or repeat steps for all other channels if desired.

NOTE: In the normal clock display, when either the upper or lower temperature alarm has been set for a particular channel, the symbol will show up solid on the LCD screen when that channel is displayed.

#### When the Temperature Alarm Sounds

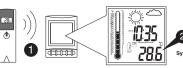
- The temperature alarm will sound when the actual temperature has reached (or exceeded) the upper or lower temperature limit.
- The temperature alarm has a distinctive tone different to that of the clock alarm.
  - Press ANY key to stop the temperature alarm. Or without interruption, the temperature alarm will automatically stop after one minute.

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### WIRELESS TRANSMISSION

#### **Automatic Learn Function:**

- The learn function starts automatically and runs for approximately 3 minutes when hatteries are first installed in the receiver
- Within the 3 minutes, the receiver will pick up the temperature signal from the remote transmitter and display the reading



#### Manual Learn Function (Remote Signal Search):

If a new remote transmitter is added or if signal is lost (outdoor readout on the receiver is blinking), the learn function must be executed again.

- Press and hold CHN for
- Unit will beep to indicate that learn function has started.
- Channel symbol will blink and unit will continue to been as
- each remote transmitter is detected Within 3 minutes, the temperature reading of the remote transmitter
- will display on the receiver

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#### LOW BATTERY INDICATION

#### WS222 Receiver

Replace the batteries when the Low Battery Indication lights up on the LCD screen by the local (indoor) temperature display.

#### WT440 Remote Transmitter

- Replace the batteries when the Low Battery Indication lights up on the bottom-left corner of the LCD screen on the WT440 transmitter.
- When the batteries are low on a transmitter, a Low Battery Indication will also light up on the LCD screen of the WS222 receiver for that particular channel

NOTE: After replacing the batteries, you will need to perform the Setup

and Learn Function procedures again. Refer to the GETTING STARTED







and WIRELESS TRANSMISSION sections. PAGE 12

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Falling

#### WIRELESS TRANSMISSION

Environmental factors and signals from other household devices, such as remote entry controls, security systems, and computers, may interfere with the wireless transmission of this product and cause temporary reception loss. This is normal and does not affect the general performance of this product. Stable reception will resume once the interference ends

#### For optimal performance:

- Place the receiver and remote transmitter side by side about 1 metre apart, and allow the receiver and remote transmitter to synchronize for 10 minutes before you place the remote transmitter outdoors.
- The remote transmitter should be placed in a dry shaded area. NOTE: Fog and mist will not harm the remote transmitter but direct rain must be avoided.
- Mount the remote transmitter upright avoiding metallic objects and frames, such as window sills. Verify that there are no obstacles like a transmission tower or steep hill that can cause interference and blockage between the remote transmitter and receiver.
- Place the receiver unit at least 2 metres away from any electrical devices, such as your television set, computer, cordless phone, or any radio controlled equipment.
- You may need to reposition the remote transmitter to a different location and/or closer to the receiver for the best transmission.
- Replace unit(s) with fresh batteries when the Low Battery Indicator lights up. Refer to the LOW BATTERY INDICATION section.

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#### **TROUBLESHOOTING**

PROBLEM	SOLUTION
The temperature data on the remote transmitter does not match the data displayed on the receiver.	This may occur when you move the remote transmitter from one environment to another. For example, when you bring the transmitter from inside the warm house out to the cold exterior. I want a case, there will be a big change in temperature. The transmitter from inside the warm thouse out to the cold exterior. The change is able to transmit the data to the receiver (which is done one every minute). Therefore, you will temporarily get a difference in reading between the remote transmitter and excelved in the cold of the
The temperature data on the remote transmitter does not match the data displayed on the receiver.	This may also be the result of a temporary loss of reception due to interfering sources. Normal reception should resume once the interference ends. Refer to the WIRELESS TRANSMISSION section.
The remote (outdoor) readout on the receiver is blinking.	Re-synchronize the remote transmitter and receiver by pressing and holding CHN on the receiver for 3 seconds until a beep is head. The temperature data from the remote transmitter will display on the receiver within 3 minutes. Refer to the WIRELESS TRANSMISSION (Manual Learn Function) section.
The remote (soutdoor) readout on the receiver is biblinking. The renor-lever will not detect or receive the temperature data from the remote transmitter, even after the Manual Leam Function has been executed.	Ensure the remote transmitter is away from any possible source of undervence and electrical distultances. Van may by to reposition the remote transmitter in a different location and/or obsert to the receive. The remote transmitter in a different location and/or obsert to the receive. The remote transmitter does have a maximum range of 40 metres, but any valid or windows the signal has to pass through will reduce the delations. Due to the nature of the batteries, extreme cold temperatures may also affect the transmission range. extreme cold temperatures may also affect the transmission will be added to the contractions. As the contraction with the remote transmission range because of the contraction with the remote transmission and the contraction with the contraction with the remote transmission and the contraction and the contraction with the contraction and the contraction are contracted as a contraction and the contraction

#### **CLOCK SETTING**

Press and hold MODE for 3 seconds to enter the Clock Setting mode. You will hear a beep and the time will blink.

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- Press HOUR to set the hour.
- 3 Press MIN to set the minute.
- Press ALARM/(°C/°F) during clock setting to change between 12 and 24 hour display.
  - Press MODE or no key press for one minute will end clock setting.

#### DAY/NIGHT ICON

The day/night icon will change automatically depending on the time of day.

#### The day icon is represented by a blinking sun, and a cloud.

- The day icon will be displayed between 6:00am to 5:59pm.



#### NIGHT ICON:

The night icon is represented by a half-cresent moon with stars and a cloud. - The night icon will be displayed between 6:00pm to 5:59am.



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#### **FCC COMPLIANCE**

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC BULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

1 THIS DEVICE MAY NOT CAUSE HARMEUL INTERFERENCE, AND 2. THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

#### **SPECIFICATIONS**

#### WS222 - WEATHER STATION RECEIVER

- Battery Type: 2 X 1.5V AA batteries
- Operating Temperature: -5°C to 50°C
- Temperature Range: -20°C to 55°C
- Measurement Accuracy: Max. +/- 1°C within measuring range of 0°C to 40°C
- Resolution: 0.1°C

#### WT440 - WEATHER STATION TRANSMITTER

- Battery Type: 2 X 1.5V AA batteries
- Operating Temperature: -20°C to 60°C - Temperature Range: -30°C to 70°C
- Temperature Resolution: 0.1°C for above -10°C / 1°C for below -10°C
- Measurement Accuracy: Max. +/- 1°C within measuring range of 0°C to 40°C
- Transmission Frequency: 433.92 MHz
- Transmission Range: up to 40 metres in open area

CUSTOMER SUPPORT HOTLINE: 1-888-468-6876

#### ALARM SETTING

- Scroll to the Alarm mode using MODE. The AL symbol will appear.
- Press HOUR to set the hour.
- Press MIN to set the minute.
- Press ALARM to toggle alarm on and off.
- When the alarm is set ON, the of symbol will appear and the unit
- In the normal clock display, if the alarm is set ON, the 🦪 symbol will also appear on the display.







Alarm Setting

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#### LIMITED TWO-YEAR WARRANTY

UPM warrants this product, excluding battery, to be free from defects in the materials or workmanship, under normal use and service, for a period of two (2) years from the date of purchase by the consumer

If, at any time during the warranty period, the product is defective or malfunctions, UPM shall repair or replace it (at UPM's discretion) within a reasonable period of time.

If the product is defective,
(i) return it, with a dated proof of purchase, to the retailer from which you purchased it, or
(ii) package it creativity, along with a dated proof of purchase and a short description of the maillunction, and mail it,
postage prepaid, to the following address:

Return Goods Unit 10B - 250 Shields Court Markham, Ontario L3R 9W7

LIPM's sole responsibility shall be to repair or replace the product within the terms stated above. LIPM SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or ntial damages, so this limitation may not apply to you.

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY UPM MAKES ON THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE TWO YEAR DURATION OF THIS WARRANTY. Some states do not allow imitations on how long an implied warranty lasts, so the above limitation may not apply to you

This warranty gives you specific legal rights, and you may have other rights which may vary from state to state

UPM Marketing Inc. Customer Service Department Unit 10B - 250 Shields Court Markham, Ontario L3R 9W7

Or call 1-888-GO-TO-UPM (1-888-468-6876), Monday to Friday, from 9:00am to 5:00pm eastern.

#### TEMPERATURE DISPLAY

#### Local (Indoor) Temperature

The local (indoor) temperature is displayed in two locations.

- GRAPHICAL the local (indoor) temperature is shown as a bar graph on the left of the LCD screen.
- NUMERICAL the local (indoor) temperature can be viewed at the bottom-right of the LCD screen.

NOTE: The remote (outdoor) temperatures are also shown here. You can scroll through the local and remote channels 1 to 4 by pressing CHN.







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#### Remote (Outdoor) Temperature

- If the Learn Function is performed successfully (refer to the WIRELESS TRANSMISSION section), the remote (outdoor) temperatures will display in the bottom-right corner of the LCD screen.
- Press CHN to toggle between channels 1, 2, 3 and 4





Selecting °C or °F Temperature Display

Toggle between °C and °F by pressing °C/°F in the Clock mode.

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#### INSTRUCTION TO THE USER

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.

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.