

OWNERS MANUAL

Congratulations on your purchase of this weather station set, WS290C + WT260H. Please take the time to read and understand this manual so you can begin to enjoy the convenience and features this product has to offer.

FEATURES

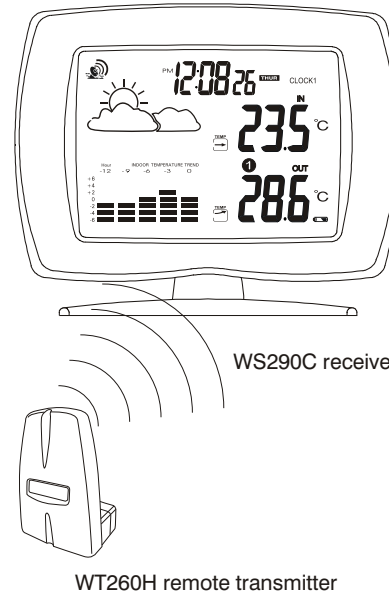
Main Display Unit WS290C:

- * dual clock and dual alarm
- * calendar (month/day/date)
- * local temperature display
- * receives and displays temperature and humidity readings from up to 3 remote transmitter via RF technology of 433MHz
- * minimum and maximum temperature and humidity display
- * temperature and humidity trend indicator
- * temperature history (bar graph for past 12 hours)
- * weather report symbols
- * user-selectable C or F
- * table stand or wall mountable
- * battery type: 2 x AA

Remote Transmitter WT260H

- * drip-proof design with LCD
- * temperature display in user-selectable C or F
- * humidity display
- * transmission range: up to 40 meters in open area
- * table stand or wall mountable
- * battery type: 2 x AAA

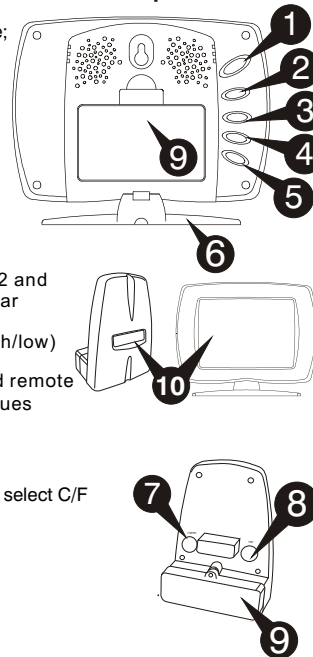
WS290C + WT260H Wireless Weather Station



GETTING STARTED

- MODE/SNOOZE:** scrolls through Clock 1 & 2, Alarm 1&2, Date and Temperature Alarm mode; snooze for alarm
- HOUR/MONTH/MAX/+ :** shows maximum temperature; adjusts clock, alarm, date and temperature alarm values
- MIN/Day/MIN/- :** shows minimum temperature; adjusts clock, alarm, date and temperature alarm values
- ON/OFF (C/F)** toggles between C and F, 12 and 24 hour format; Alarm 1&2 on and off, and bar graph indoor and outdoor channels; scrolls through temperature alarm settings (off/high/low)
- CHN/ WEEKDAY:** scrolls through local and remote channels (1 to 3); adjusts time and date values
- Table Stand
- SET:** change House Code, Channel value and select C/F
- RESET:** Reset Channel & House Code
- Battery Compartment
- LCD display

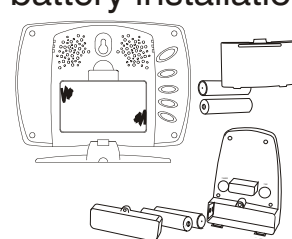
button placement



GETTING STARTED

- remove battery cover
- 2 AA size batteries (WS290C)
- 2 AAA size batteries (RT201H) (included)
- Insert between terminals observing proper polarity then replace cover

battery installation



LOW BATTERY INDICATION: Low battery indicator on receiver will flash continuously when batteries need to be changed. On transmitter, **Lo bat** will be displayed

setting up transmitters

- Press **RESET** to start setup
 - House code will flash for 10 seconds
 - Select House code (1-15) by pressing **SET**
 - Transmitters for each receiver must be set to the same House code.
 - Channel will flash for 10 seconds
 - Select Channel(1-3) by pressing **SET**
- * Use a different house code if your weather station receives the other transmitter of your neighbourhood.
* If House code and Channel code are not selected (steps 3 & 5 are skipped), House code 01 and Channel code 1 are default.

SETUP

Automatic Learn Function:

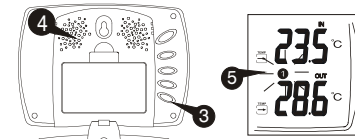
- Learn function executes automatically and runs for approximately 3 minutes when batteries are first installed in the receiver.
- Within these 3 minutes, receiver picks up the temperature & humidity signals from remote sensor and display the reading.



Manual-Learn (Search Remote Signals):

If a new remote sensor is added or if signal is lost (outdoor display blinking), learn function must be executed again.

- Pressing and holding **CHN** for 3 seconds to start
- Beep sound indicates that learn function has started
- 'Channel' symbol will flash and unit will beep as each remote sensor is detected
- Temperature & humidity readings of remote transmitter displays on the receiver.



CLOCK SETTING

Clock 1 Setting:

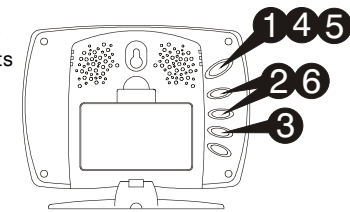


- Press and hold **MODE** for 3 seconds to enter the clock setting mode (the **CLOCK1** symbol appears and the time will flash)
- Press **HOUR** to set the hour and **MIN** to set the minute;
- Press **ON/OFF** during clock setting, to change between 12 and 24 hour display. This also will end the clock setting.
- Press **MODE** or no key pressed for 1 minute will finish the clock setting.

Clock 2 Setting:



- Scroll to **CLOCK 2** mode using **MODE**
- Press + or - key to change the hour (in one hour increments/decrements relative to Clock 1)



DATE & ALARM SETTING

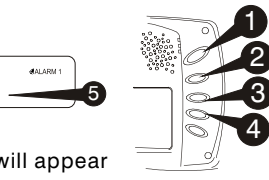
Calendar Setting:

- Scroll to Date mode using **MODE/SNOOZE**
- Press **HOUR/+ /MAX** to set month
- Press **MIN/-/MIN** to set date
- Press **CHN** to set day



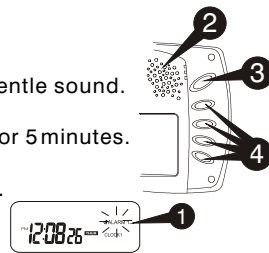
Alarm 1 and Alarm 2 Setting

- Scroll to **ALARM1** mode (**ALARM2** mode) using **MODE/SNOOZE**
- Press **HOUR/+ /MAX** to set hour
- Press **MIN/-/MIN** to set minute
- Press **ON/OFF** to toggle alarm on and off
- When the alarm is set **ON**, the 'on' symbol will appear



When Alarm Sounds

- ALARM 1** or **ALARM 2** will flash
- The Crescendo alarm will initially have a gentle sound. The loudness will increase gradually.
- Press **SNOOZE** key will snooze the alarm for 5 minutes. After that the alarm will sound again.
- Press **ANY** other key will shut off the alarm.
- Without interruption, alarm will turn off automatically after one minute.



WEATHER DISPLAY

Check Local Temperature

- * Local Temperature displays instantly after batteries are inserted.



Check Remote Temperature & Humidity

- * Press **CHN** key to display and toggle the readings of temperature and humidity among the Channel 1, 2 and 3 displays. Temperature and humidity data will alternate

C or F Temperature Display

- * Toggle between C and F by pressing **ON/OFF** in either **CLOCK1** or **CLOCK2** mode.

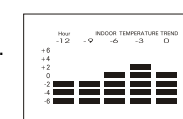
Min and Max Temperature & Humidity

- * Press **MIN** in Clock1 mode to display minimum temperature and humidity

- * Press **MAX** in Clock1 mode to display maximum temperature and humidity

Historical Temperature Bar Graph

- * The bar graph lets you see the temperature trend over a period of 12 hours in 3-hour intervals. Toggle between indoor and outdoor bar graphs using **ON/OFF** in Date mode.



Note: Min/Max readings are automatically cleared daily at **00:00**

WEATHER DISPLAY

temperature & humidity trend

The trend indicator shows the trend of temperature and humidity determined by the particular transmitter in the past half-hour interval.

Arrow Indicator	Rising	Steady	Falling
	↗	→	↘

weather report symbols

The receiver is able to monitor and display the weather status based on collected data from Channel 1.

	Sunny	Cloudy	Raining	Snowing	Freeze Warning
Weather Indicator	 OR 				

About Freeze Warning

- * Snow symbol will flash to warn of 'freezing'.
- * Activated when Channel 1's temperature is between -1.9 C and +2.9 C
- * Snow will appear solid if and when Channel 1's temperature falls below -1.9 C.

Note:

- * Initially, the weather will be cloudy
- * Remote transmitter Channel 1 will be used for weather indication.
- * If Channel 1 is empty, then weather will always be cloudy.
- * If Channel 1 has no humidity data, weather indication will always be cloudy, but freeze warning and snow indication will be available.

TEMPERATURE ALARM

- * You can set temperature alarm for local main unit and for one outdoor channel separately.

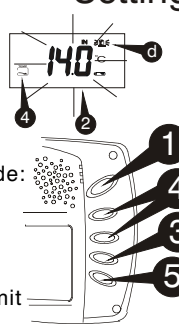
- Scroll to Temperature Alarm mode using **MODE**
- Indoor temperature will flash
- Use **ON/OFF** key to select temperature alarm mode:
 - Up arrow: Upper temperature limit
 - Down arrow: Lower temperature limit
 - Without arrow: Temperature alarm disabled

- Press + or - key to set the value of temperature limit
- Use **CHN** key to select desired remote channel (1, 2 or 3) for temperature alarm. Only one channel can be selected. Repeat the step 3 & 4 for setting remote channel temperature alarm.

When Temperature Alarm Sounds

- * It is to alert the real temperature exceeds the preset temperature limit.
- * Press any key to stop temperature alarm; or
- * If no key is pressed, the temperature alarm will automatically stop itself after one minute.
- * Once triggered, temperature alarm comes on as a distinctive sound, different to that of ALARM1 and ALARM2.
- * Also, the 'siren' symbol will flash.

Setting



TROUBLESHOOTING

problem

- The temperature measurement of remote transmitter and receiver does not match
- Temperature reading of the outdoor remote transmitter seems too high.
- Receiver is no longer receiving remote transmitter signals or display

solution

- Re-synchronize receiver by holding **CHN** for 3 seconds until a beep is heard.
- Ensure the remote transmitter is out of direct sunlight, and away from sources of heat.
- Repeat the learning procedures.
 - Temperature may be below -30C.
 - Batteries in remote transmitter may need changing.
 - Move remote transmitter closer to the receiver.
 - Make sure remote transmitter is away from sources of electrical disturbance.

SPECIFICATIONS

Weather Station Receiver WS290C

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

Weather Station Transmitter WT260H

- Battery Type: 2 X 1.5V AAA batteries
- Operation Temp.: -20 C to +60 C
- Temp. Range: -30C to +70C
- 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 to 40 C
- Humidity Range: 25% to 90% RH (resolution 0.5%)
- Transmission Frequency: 433.92 MHz
- Transmission Range: up to 40 meters in open area

NOTICE

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.

Warning:

Changes or modifications made to this equipment not expressly approved by the manufacturer may void the FCC authorization to operate this equipment.