

RAINWATCH

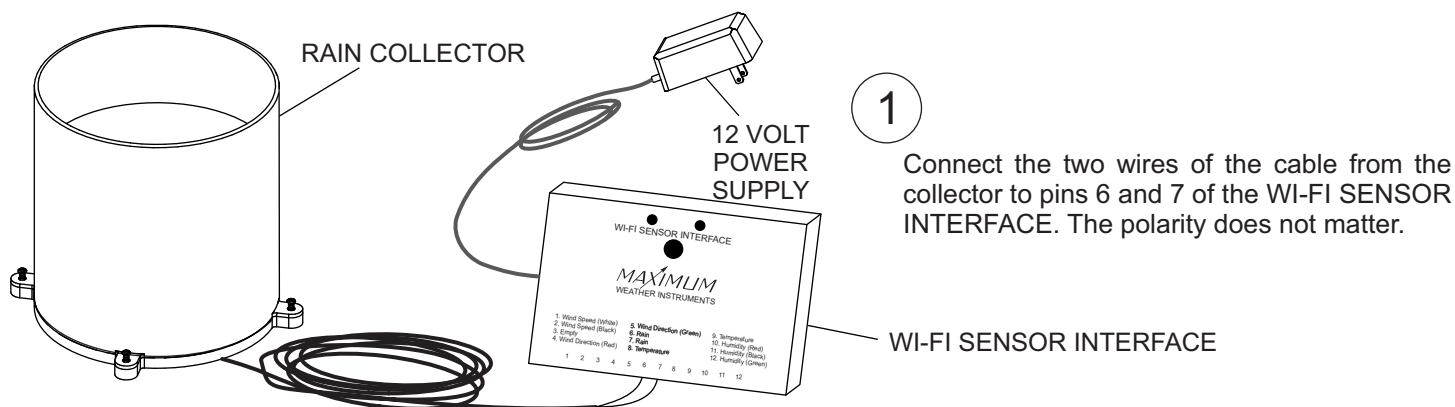
WI-FI INSTALLATION

OVERVIEW

Maximum has designed a system that captures all its exterior sensor options and transmits the weather conditions through your home or business wi-fi network. You can use this signal to display on our beautiful weather instruments and or interface with the Weather Underground website to monitor your installation remotely. If you would like to monitor your station on Weather Underground visit their website www.wunderground.com and join. Follow the screen prompts to obtain a station id and password that will be required during the Captive Portal setup.

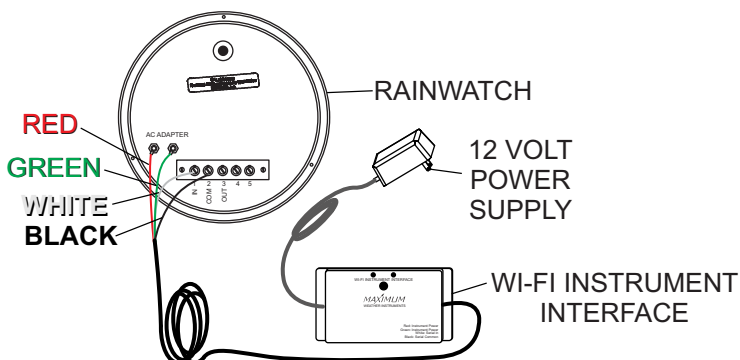
PROPER INSTALLATION IS IMPORTANT. IF YOU NEED ASSISTANCE, CONSULT A CONTRACTOR, ELECTRICIAN OR TELEVISION ANTENNA INSTALLER (CHECK WITH LOCAL BUILDING SUPPLY, OR HARDWARE STORE FOR REFERRALS). **TO PROMOTE CONFIDENCE, PERFORM A TRIAL WIRING (BENCH TEST) BEFORE INSTALLATION.**

BENCH TEST



2

Connect the **RED** and **GREEN** wires from the WI-FI instrument interface to the connectors labeled "AC ADAPTER" on the back of the brass RAINWATCH dial. Connect the **WHITE** wire to TERMINAL #1 IN, the **BLACK** to TERMINAL #2 COM.



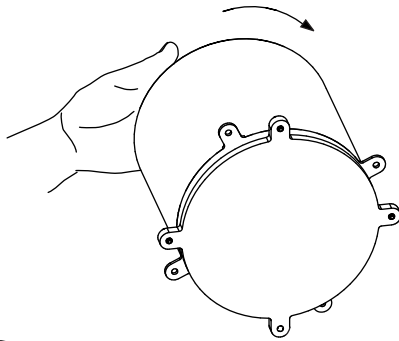
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WI-FI INSTALLATION

BENCH TEST (CONTINUED)

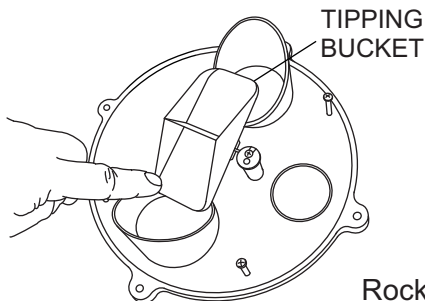


3

Remove the cover of the COLLECTOR by twisting it counter-clockwise.

4

Plug both 12 volt supplies and the bench test boot sequence should appear on the instrument interface.

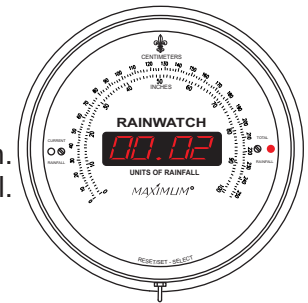


BENCH TEST BOOT SEQUENCE

Step	Sys	App	Description
1	●	●	Power Applied
	WI-FI INSTRUMENT INTERFACE		
1	●	●	System Started
	WI-FI INSTRUMENT INTERFACE		
1	●	●	Captive Portal Launched
	WI-FI INSTRUMENT INTERFACE		
1	●	●	Captive Portal Running
	WI-FI INSTRUMENT INTERFACE		

5

Rock the TIPPING BUCKET back and forth. A reading should then appear on the dial.



6

This should complete the bench test. If the instrument does not behave normally, recheck the wiring for proper configuration.

Unplug both 12 volt power supplies, disconnect the wiring and cables and then proceed with a permanent installation.

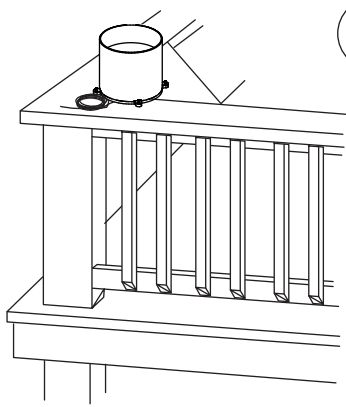
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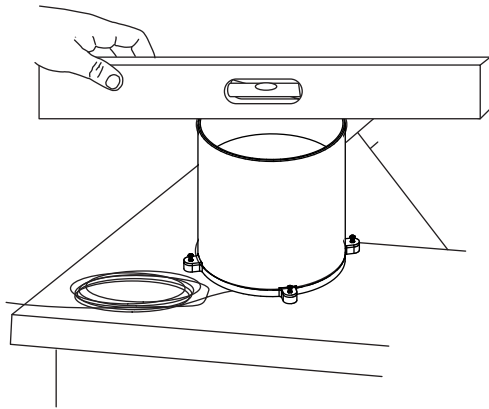
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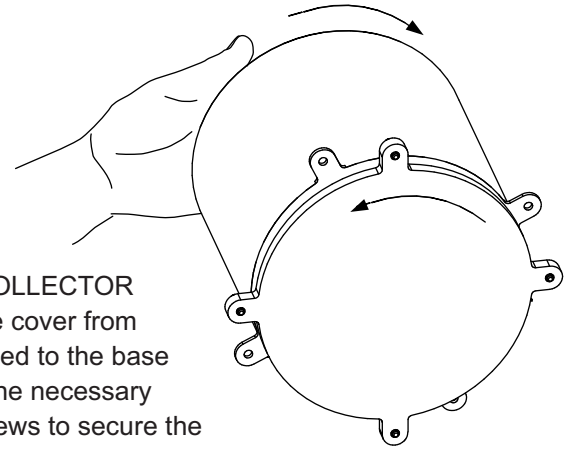
WI-FI INSTALLATION



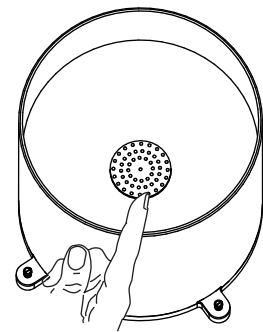
- 1 Select a level surface in an open area above the ground and near a source of 110volt AC to mount the collector. An example would be a deck railing.



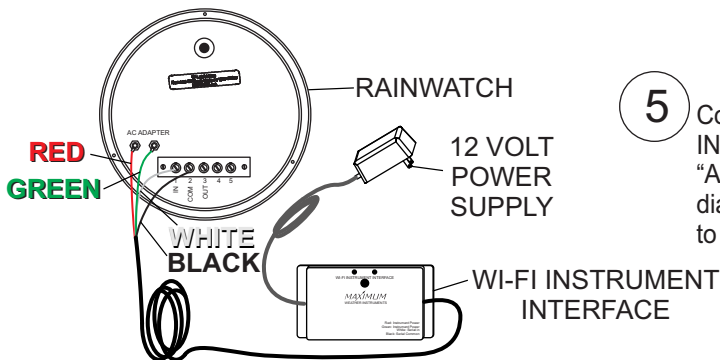
- 3 The COLLECTOR must be mounted level to provide an accurate reading.



2 Rotate the COLLECTOR to remove the cover from the base. Taped to the base you will find the necessary mounting screws to secure the base to your chosen mounting surface.

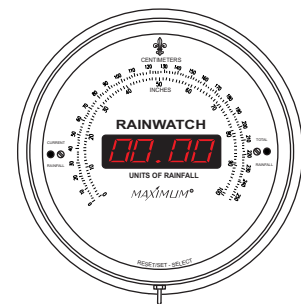


- 4 Make sure that the plastic screen is in position in the collector.



- 5 Connect the **RED** and **GREEN** wires from the WI-FI INSTRUMENT INTERFACE to the connectors labeled "AC ADAPTER" on the back of the brass RAINWATCH dial. Connect the **WHITE** wire to TERMINAL 1 **BLACK** to TERMINAL 2.

Plug in the AC adaptor. The display should light up.



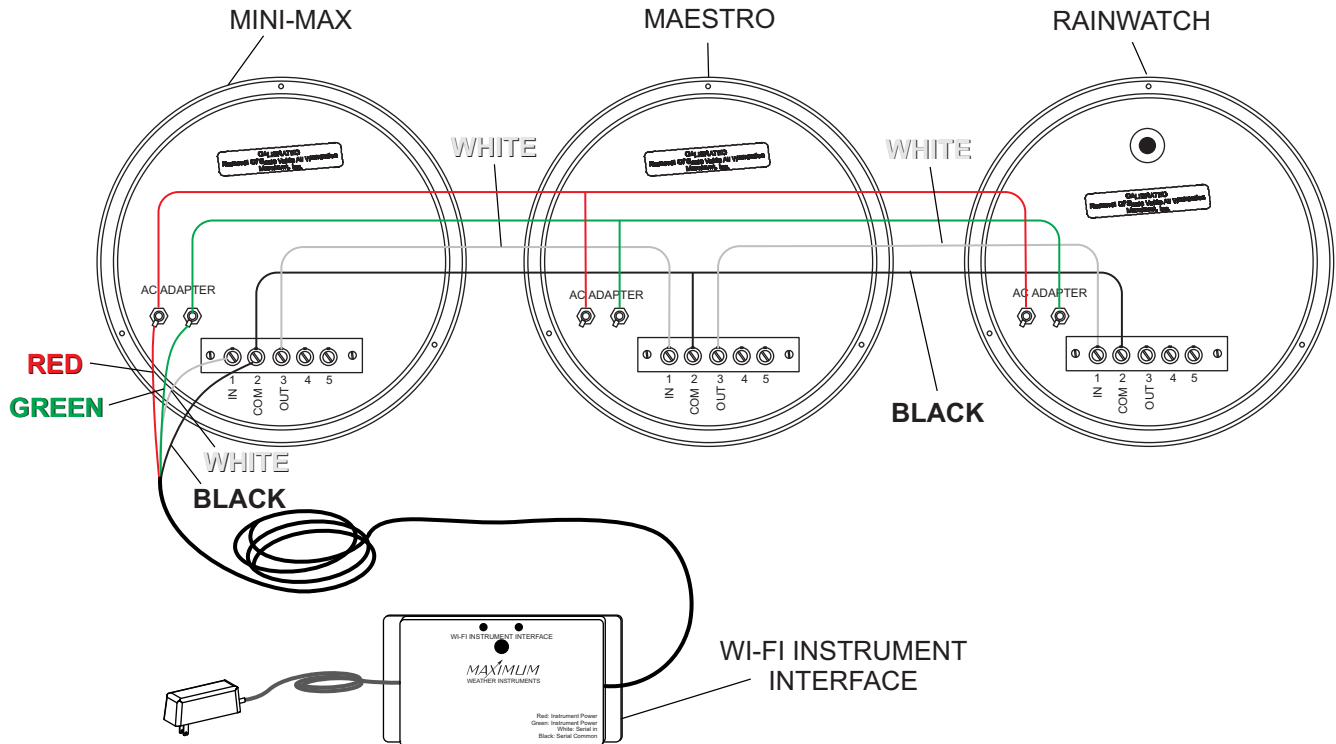
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RAINWATCH

WI-FI

OPTIONAL INSTALLATION WITH MINI-MAX AND MAESTRO



RAINWATCH WITH MINI-MAX AND MAESTRO CONNECTIONS

- 1 Connect the **RED** and **GREEN** wires from the INTERFACE to the power terminals on the back of the MINI-MAX. The polarity does not matter. Connect other instruments from the power terminals on the back of the MINI-MAX..
- 2 Connect the **WHITE** wire from the INSTRUMENT INTERFACE to TERMINAL #1 (IN) of the MINI-MAX.
- 3 Connect the **BLACK** wire from the INSTRUMENT INTERFACE to TERMINAL #2 (COM) of the MINI-MAX.
- 4 A. Connect the **WHITE** wire from MINI-MAX TERMINAL #3 (OUT) to MAESTRO TERMINAL #1 (IN).
B. Connect the **BLACK** wire from MINI-MAX TERMINAL #2 (COM) to MAESTRO TERMINAL #2 (COM).
- 5 A. Connect the **WHITE** wire from MAESTRO TERMINAL #3 (OUT) to RAINWATCH TERMINAL #1 (IN).
B. Connect the **BLACK** wire from MAESTRO TERMINAL #2 (COM) to RAINWATCH TERMINAL #2 (COM).
- 6 The order of the instruments does not matter i.e. the WI-FI could just as well be wired into the RAINWATCH and the MINI-MAX AND MAESTRO could be from the RAINWATCH

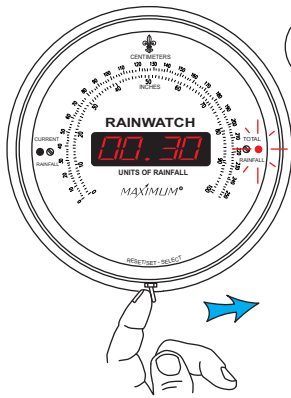
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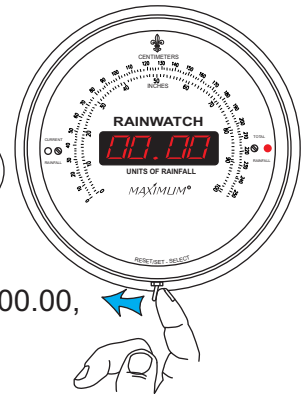
RAINWATCH

WI-FI OPERATION

RAINWATCH has two "counters". They are shown on the face of the instrument as "CURRENT" and "TOTAL". The counters are controlled by the switch at the bottom.



- 1 To switch between the "CURRENT" and "TOTAL" rainfall, toggle the switch to the right (SELECT).



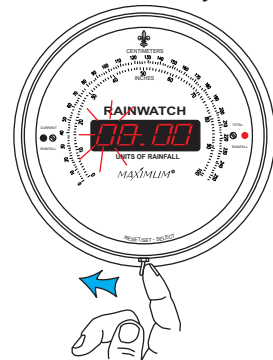
2 To reset the selected Rainfall counter, hold the switch to the left (RESET/SET) for 6 seconds and the count will reset to 00.00, then release.

OPERATION RELATED INFORMATION

Power Outages: During a power outage, Rainwatch will retain the values in it's counters indefinitely. No further accumulation will be added until power is restored. The Receiver, Transmitter and instrument will automatically re-sync within one hour of power being restored. If continuous operation of Rainwatch is required, plug Rainwatch into an U.P.S. (uninterruptible power source).

Manually Adding Counts: It is possible to manually add counts to both memories as necessary.

- 1) Make sure the Rainwatch is displaying the counter you want to set or add to (Total or Current).
- 2) Operate the mode switch left (RESET/SET) and hold it for 10 seconds to enter the rainfall counter setting mode. The display will reset to zero after 6 seconds and the most significant digit (left most) will begin blinking after the mode switch is held for an additional 4 seconds (10 seconds total) indicating that it can be preset. Release the toggle switch.
- 3) To set the blinking display digit, operate the mode switch to the left (RESET/SET) side and let it return to the middle. The display number will advance by one. Continue to toggle the mode switch left, advancing to the number desired.



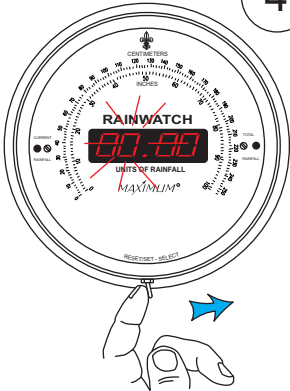
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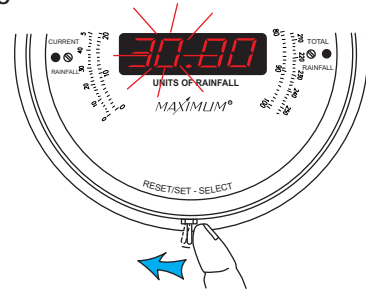
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WI-FI OPERATION

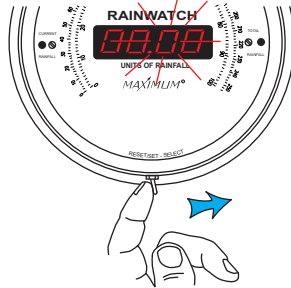
4



To advance to the next digit, toggle the Mode switch to the right (SELECT). The next digit to be set will begin blinking. Toggle the mode switch to the left to advance to the desired number.



5



Repeat step 4 for the third and fourth digit.

5

When complete, or after no activity for 10 seconds, the Rainwatch will automatically return to normal mode.

Freezing Weather: Freezing weather will not damage the unit. However, readings of snow or freezing rain may not correlate to actual rainfall amount.

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