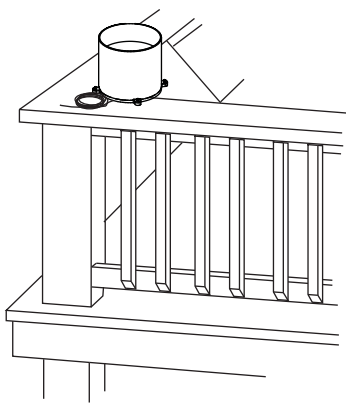


# RAINWATCH

## INSTALLATION

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

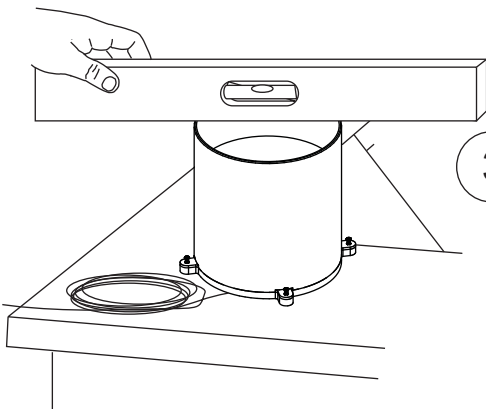
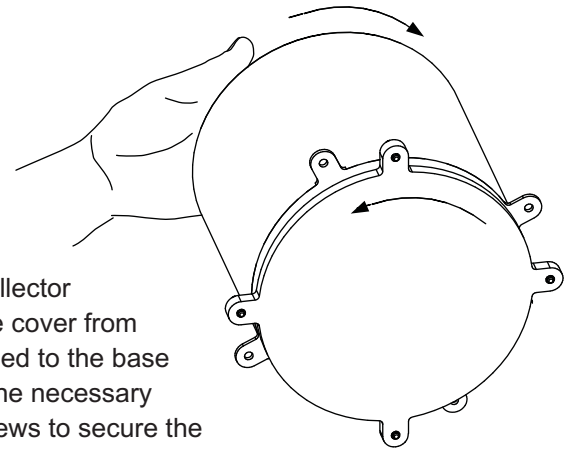


1

Select a level surface in an open area above ground to mount the collector. Some examples would be a deck or tree stump.

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.

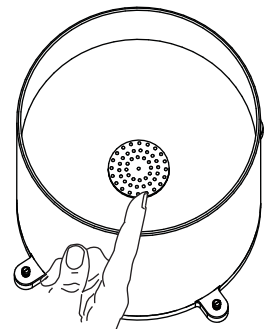


3

If the collector is not mounted absolutely level your readings will be incorrect.

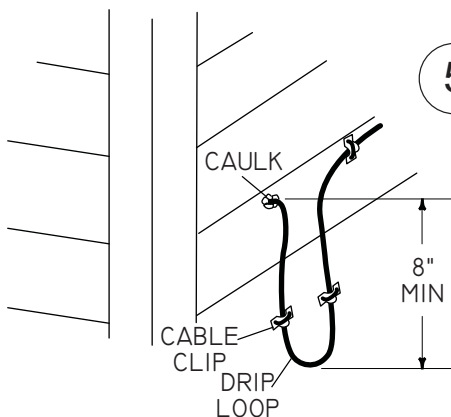
Make sure that the plastic screen is in position in the collector.

4



5

Run the wire into the house using insulated cable clips. Form a drip loop where the wire enters the house and caulk the feed through hole when done.

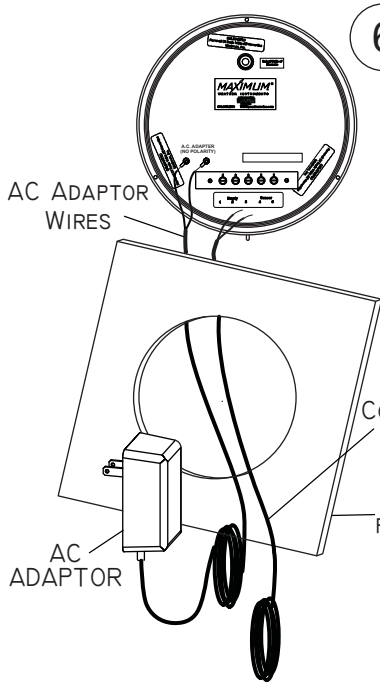


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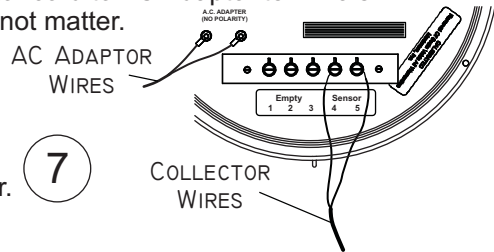
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# RAINWATCH

## INSTALLATION (CONT.)



**6** Feed AC adaptor and collector wires through optional pre-drilled wood panel. Connect the wires from the AC Adaptor cord to AC Adaptor terminals on rear of display. The polarity does not matter.

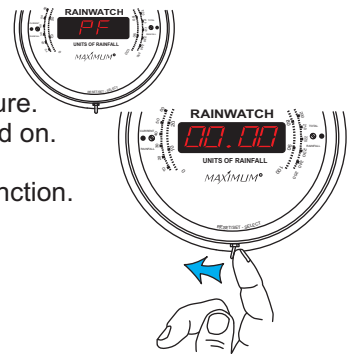


Connect the collector wires to terminals #4 and #5. The polarity does not matter.

**7**

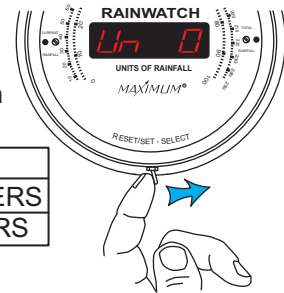
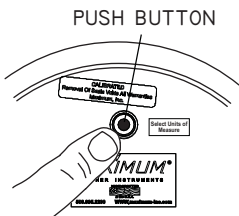
**8**

Plug in the AC adaptor. The unit will go through a start up procedure. When done, "PF" will flash off and on. Toggle switch one time to the left (RESET/SET) to enter normal function. Unit will display current rainfall.

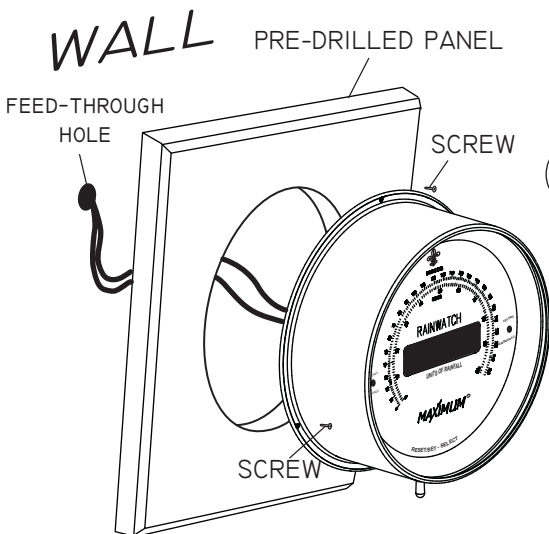


**9**

Select Unit of Measure. Unit is factory set to display in inches. To change from inches to other available units of measure, press the small push button switch on the back of the indicator. The display will show "Un" and a number. The number indicates the unit of measurement. Press the push button again to advance through the available units. When you have the code showing the unit of measurement you want, operate the toggle switch on bottom of the case to the right, (SELECT). Rainwatch will then return to normal operation with the display using the selected units.



Un 0	INCHES
Un 1	CENTIMETERS
Un 2	MILLIMETERS



**10**

Mount the Brass Readout directly over the FEED-THROUGH HOLE to avoid crimping the wire. We recommend mounting the Readout on one of our pre-drilled and centered panels.

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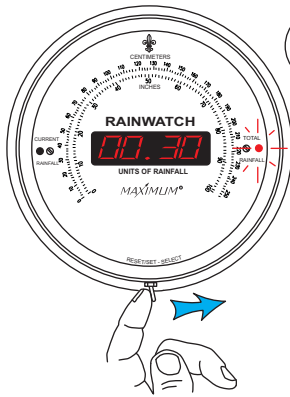
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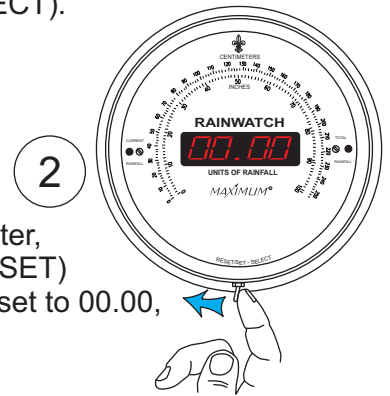
# RAINWATCH

## 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).



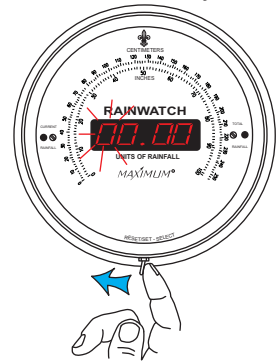
To reset the selected Rainfall counter, hold the switch to the left (RESET/SET) for 6 seconds and the count will reset to 00.00, then release.

## 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. If continuous operation during power outages is required, plug Rainwatch into an U.P.S. (Uninterruptable 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.



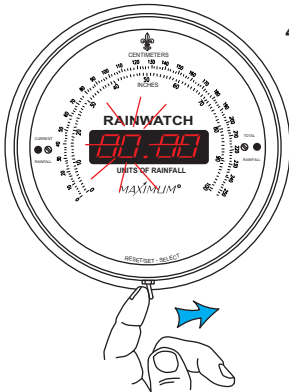
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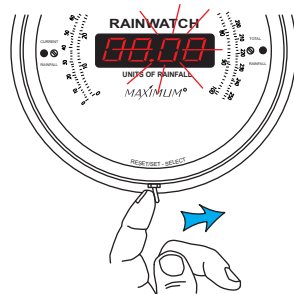
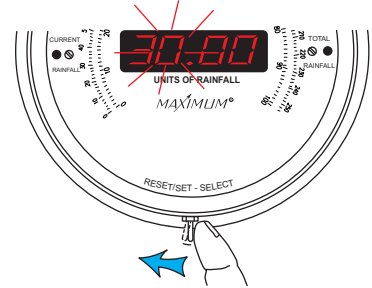
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# RAINWATCH

## OPERATION RELATED INFORMATION CONTINUED



- 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.

- 6) 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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# RAINWATCH

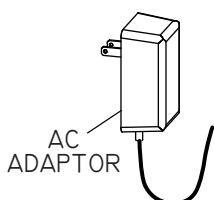
## TROUBLE SHOOTING

- 1) If the display is NOT lit check the voltage output from the AC Adaptor. This particular adaptor puts out between 11 and 15 VAC. If the voltage is not correct, then the adaptor is faulty.

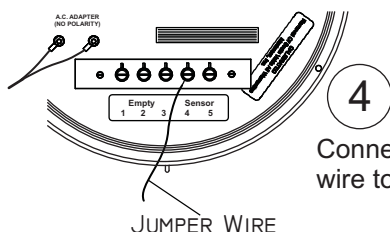
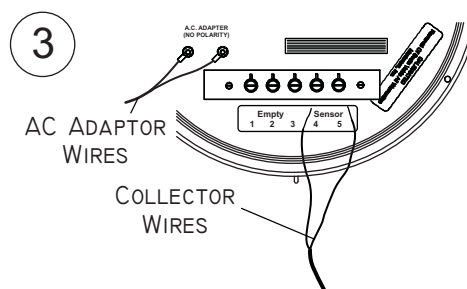
- 2) If the display IS lit and shows "Err" the power needs to be cycled to clear this message.



- 1) Unplug the AC adaptor from the 110 VAC power outlet.
- 2) Wait 15 seconds
- 3) Plug the AC adaptor back into the 110 VAC power outlet.
- 4) If the "Err" message does not clear, the unit needs service.



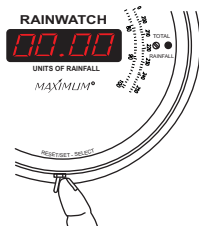
If the display IS lit but the unit is not counting, then remove the indicator from the wall and disconnect the collector wires from terminals #4 and #5.



Connect one end of a 3" or 4" long "jumper" wire to terminal #4.

- 5) Reset the "memories" to 0.

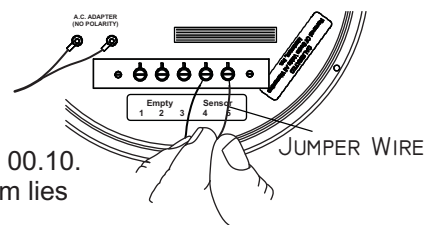
- 1) Select the memory to reset by toggling the switch right (SELECT) to choose "CURRENT" or "TOTAL".
- 2) Hold toggle switch to left (RESET/SET) for 6 seconds and the count will zero.
- 3) Repeat steps 1 and 2 above to reset the other memory as well.



- 4) Using the free end of your jumper wire, touch terminal #5 and release it. The display should read 00.01.



- 5) Repeat step 4 nine more times. The display should then read 00.10. This indicates that the instrument is alright and that the problem lies in the wire or in the collector.



- 6) Contact the factory for advice as to how to troubleshoot the wire and the collector.

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# RAINWATCH

## FCC NOTICE

**Warning:** Changes or modifications to this equipment not expressly approved by Maximum, Inc. in writing as the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 the 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.

## NOTES

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## **Electrical Damage - Common Causes & Recommended Prevention**

Electrical damage can be caused by many different factors. Below are some of the more common causes and some suggested methods of minimizing potential problems.

### **Common Causes:**

**Storm Activity** - lightening in your area can do damage to your instruments in different ways. The obvious way is due to a direct or nearby strike. In addition, lightening storms, dust storms, dry snowstorms and strong dry winds can all cause static electricity to build up on and around your external sensors. Regardless of the cause, this built up electricity itself through the cable connecting the external sensors to the instrument.

**Power Surges** - A surge may come from the electric company's switching generators or power grids, from local industries or after power interruption when accumulated power suddenly surges back through AC lines. Even the on-and-off switching of large electrical appliances, such as refrigerators or clothes dryers can create damaging fluctuations. This is especially true with sensitive weather recording devices.

**Yourself** - Are you constantly giving and/or receiving a shock every time you touch a doorknob or other person? If so, you have a great deal of static electricity in your environment. In either case, it is possible for a person to carry enough of a charge to damage an instrument.

### **Recommended Prevention:**

**Use Surge Protectors** - for the AC adapter, a UL 1449 rated surge protector with EMI/RFI filtering is recommended. This rating will be clearly listed on the packaging of all good quality surge protector.

**Discharge Yourself** - If the instruments are located in an environment where static electricity is a problem, make sure that you discharge yourself before touching the instrument(s). The shock that you get from touching a doorknob or another person can often be sufficient to damage an instrument.