

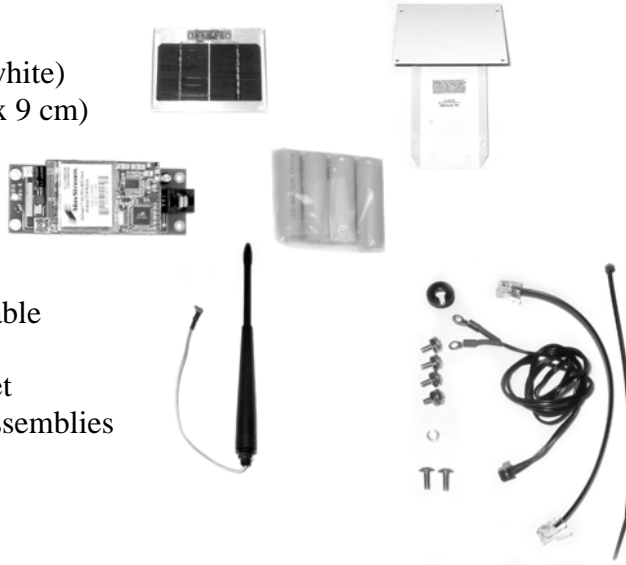
WatchDog Weather Station Short-Range Wireless Kit

Installation Instructions

Catalog #3392W

Package Contents

Wireless mounting bracket (white)
Solar Panel, 4.5 x 3.5" (11.5 x 9 cm)
Radio assembly
Antenna with cable
4 AA NiCd batteries



Parts bag, containing:

6" communications cable
Solar cable
1 hard plastic grommet
4 screw-washer-nut assemblies
2 6-32 x 3/8" screws
1 aluminum spacer
1 cable tie

Tools required

Phillips screwdriver
Slotted tip screwdriver
5/16" wrench (or pliers)

Installation

Note: the installation process involves several small parts, and should not be attempted in the field. If the weather station is already deployed, then it should be brought inside so radio installation can be done on a workbench, table, or desk.

1. Completely remove the right-most strain relief from the bottom of your weather station case. Screw the hard plastic grommet in its place.
2. Grasp the end of the solar cable with the two ring terminals. From inside the station case, insert first one terminal, and then the other through the hard plastic grommet. Pull the cable through the grommet, leaving enough inside that the red block connector can touch the "SET" button. Push the wire sideways into the slot in the grommet.
3. Remove the nut (and washer, if equipped) from the antenna, sliding it off the wire. From outside the station case, insert the antenna wire through the grommet, and screw the antenna into the grommet.
4. For weather stations with a rain collector, thread the solar cable through the 3/4" hole in the side of the weather station mounting bracket.
5. Attach the solar panel to the wireless mounting bracket using the four screw-washer-nut assemblies. The screw terminals on the solar panel should be oriented toward the top of the bracket. The lock washers should be next to the nuts.
6. Feed the two connectors on the end of the solar cable up through the larger of the two holes in the top of the wireless mounting bracket. Use the screws on the solar panel terminals to attach the two connectors: red to the left terminal (marked "+") and black to the right terminal (marked "-").
7. Using the screws on the weather station (if they are missing, two replacement 6-32x3/8" screws are provided in this kit), mount the



wireless bracket assembly to the weather station. For weather stations with a rain collector, use the two horizontal holes to mount the bracket at the rear of the station, under the rain collector, and above the radiation shield. For weather stations without a rain collector, use the two vertical holes to mount the wireless bracket on the right side of the station's bracket.

8. Remove the batteries from your weather station.

9. Disconnect all sensors from your weather station module. Be sure to note the location of any sensors plugged into ports A through H.
10. Remove the four screws on the face of the module, and then remove the module from the case, setting it face-down on the work surface.
11. Push the circular black plastic cover out of the aluminum baseplate.
12. Remove the mounting nut in the lower left area of the circuit board. Slide the aluminum spacer over the threaded post.
13. Hold the radio assembly so that the red LED is on the left, and the black plastic "phone" jack is on the right. Place the radio assembly onto the module, aligning it so that the hole in the left-center of the radio board ("B" on photo) fits over the threaded post. Replace the mounting nut removed in Step 12, tightening it to hold the radio assembly in place.
14. Feed the 6" communications cable through the circular opening in the module's base plate, plugging the connectors into the module's "AUX" port and the radio assembly's "phone" jack ("D" on photo).
15. Feed the ends of the antenna and solar power cables through the circular opening in the module's base plate.
16. Press the solar panel cable's red connector onto the white connector in the upper left corner of the radio assembly ("A" on photo). The red connector is recessed to accept the white clip.
17. Plug the antenna connector into the socket on the lower left corner of the upper radio board ("C" on photo).
18. Insert the weather station module back into the case, securing it with the four screws removed in Step 10. Reattach all the sensor cables disconnected in Step 9.
19. Insert the four AA NiCd batteries into the station, and replace the battery cover.
20. Use the SET button to set date and time, and then use the arrow button to display "CONFIGURE RADIO", and press SET twice to configure the wireless parameters.
21. When deploying the station, be sure to orient it so the solar panel receives the most sunlight.
22. See the WatchDog Wireless Modem Operation Manual for instructions on how to configure SpecWare and use your wireless modems.



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