

Maximum Wireless

Installation Instructions

Introduction

Thank you for purchasing A Maximum Wireless Weather instrument. Maximum Wireless Instruments are designed with the customer in mind. It's ease of installation and operation enables the Do It Yourself consumer to install the instrument. If you need assistance, consult a contractor, electrician, or television antenna installer.

Components

Receiver Wind Transmitter Temperature Transmitter Rain Transmitter

Wiring

Pre-Wiring and Test Locations

It is important to pre-wire and test operation before final installation can begin.

Receiver/Instrument

Connect the AC power wires from the Receiver (**Blue and Green** wires) to the AC Power terminals of the Brass Instrument (DO NOT APPLY POWER).

Connect the **White** wire from the Receiver to terminal #1 (**Rx**) of the Brass Instrument.

Connect the **Black** wire from the Receiver to terminal #2 (**GND**) of the Brass Instrument.

- If an additional instrument (except Rainwatch, or Cronus) is also being installed use the enclosed jumper wire for connection between instruments.
- Connect one end of the **WHITE** wire to terminal #3 of the 1st instrument (Tx), and **BLACK** wire to terminal #2 of the 1st instrument (GND).
- Connect other end of the **WHITE** wire to terminal #1 of the 2nd Instrument (Rx), and **BLACK** wire to terminal #2 of the 2nd instrument (GND).

Receiver/Rainwatch

Connect the **Yellow** wire from the receiver to terminal #4 of the Rainwatch.

Connect the **Brown** wire from the receiver to terminal #5 of the Rainwatch.

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Cont.

Wind Transmitter

Insert the two enclosed AA Ni-Cad batteries into the enclosed battery charger (be sure to observe Polarity) and charge batteries for 12 hours. **(Do not attempt to charge any batteries other than NI-Cad batteries. This could cause the batteries to explode, possibly causing physical damage or fire).**

Connect the sensors to the Wind Transmitter wire.

Feed the terminal lug end of the Yellow and Brown wires through one of the rubber boots and connect the lugs to the terminals on the bottom of the wind speed sensor using the brass nuts provided. The polarity does not matter. (DO NOT adjust the nuts that are already on the sensor).

Feed the terminal lug ends of the wind direction sensor through the other rubber boot. Wire the wind direction sensor as follows:

1=White, 2=Orange, 3=Black, 4=Red, 5=Green

Use the Hex nuts provided. (Do NOT adjust the nuts that are already on the wind direction sensor).

Slide the stub mast through the rubber boots and insert the stub masts into the bottom of the sensors. Secure with the cotter pins.

When connecting the Wind Direction sensor to the Z-mast, make certain that the #3 terminal is aligned with the Z-mast arm. If the sensor is not installed in this manner your wind direction readings will be incorrect.

Remove the bottom half of the clamp on the back of the Wind transmitter by loosening the screws.

Place the Transmitter on the Wind Direction mast with the antenna above the mast arm.

Place bottom of the clamp in back of the mast and secure with the screws that were removed.

Secure the sensors and stub masts to your antenna mast (not supplied) with the two hose clamps.

Open the Wind Transmitter box by lifting the latches on the box.

Place the Jumper to the **Test** position. (See Diagram)

The test position will ensure that the receiver is polling each individual sensor.

Temperature Transmitter

The Temperature sensor operates on two AA Alkaline batteries (enclosed). Do not connect the batteries yet.

Open the Temperature Transmitter box by lifting the latch on the box.

Place the Jumper on the **Test** position. (See Diagram)

Rainfall Transmitter

The Rainfall sensor operates on two AA Alkaline batteries (enclosed). Do not connect the batteries yet.

Remove the top of the Rain Collector by loosening the four Phillips head screws and rotating the top off.
Remove the blue cover to access the circuit board.
Place the jumper on the **Test** position.

TESTING/SENSOR INSTALLATION

Please follow directions in this order

Instrument Display

Move the Instrument Display near the location where they will be installed. (They may lie on a table or floor for testing).

Connect the AC Power adaptor enclosed with the instrument to each specific instrument.

If you have 2,3, or 4 instruments wire the AC adaptors to all of the instruments.

Plug in all applicable AC Power Adaptors.

Merlin you will see all lights light up then NS.

Mystic you will see all lights light up then NS.

Rainwatch you will See 00.00.

Cronus you will see all lights light up then it will display the current time.

Rain Transmitter (If Applicable)

Install two AA Batteries into the Rain transmitter

The Red Light on the Receiver box should light every 4 seconds.

Manually tip the dipper on the Rain Collector Base to one side.

The Rainwatch display should measure .01" of rain.

Move the Collector to final installation location.

The Red Light on the Receiver should continue to light every 4 seconds.

Manually tip the dipper on the Rain Collector Base and the Rainwatch display should measure .02" of rain.

If you loose the signal (Light does not blink), try alternate mounting locations for the Rain Collector.

Once location is established remove the batteries, and the test jumper. (Leave Batteries disconnected).

Temperature Transmitter (If applicable)

Install two AA Batteries into the Temperature transmitter.

The Red Light on the Receiver box should light every 4 seconds.

Switch the Mystic to display temperature.

The instrument should measure the ambient temperature.

Move the temperature sensor to final mounting location. (A North exposure 6' off the ground is recommended).

The Red Light on the Receiver should continue to light every 4 seconds.

If you lose the signal (Light does not blink), try alternate mounting locations for the temperature sensor.

Once location is established remove the battery, and the test jumper. (Leave Battery disconnected).

Wind Transmitter

Remove the Ni-Cad Batteries from the charger once they are fully charged.

Install the Batteries inside the Wind Transmitter Case.

The Red Light on the Receiver box should light every 2 seconds.

Remove the jumper from the test position.

Bring the mast to the rooftop

Mount the mast to a mounting bracket (not supplied).

Choose a location at least 8' of vertical clearance above objects on the roof.

Check the light on the receiver it should blink every two seconds.

Align the wind direction Z-mast arm to the **EAST**. Then tighten mast per instructions supplied with the mast.

Display Installation

As you position your display, be aware of possible interference from cordless phones, computer monitors, and other items. To help prevent interference, mount receiver at least 12' away from such appliances. For best reception, avoid installation near large metallic surfaces.

Receiver

Cut a hole in the wall large enough for the receiver to pass through.

Drop the receiver inside the wall.

Anchor instruments/wood panel to the wall using wood screws.

Check functions to be sure that instruments are displaying data.

If you are having difficulty receiving transmissions, it may be necessary to move the individual sensor transmitters, or the receiver.

Other Information

Batteries

The AA Alkaline Batteries in the temperature and rain collector transmitter should last approximately six to twelve months. We recommend replacing the Batteries every 6 months to avoid loss of data.

The AA Ni-Cad Batteries in the Wind transmitter will continually recharge via the Solar charging system. The characteristics of the batteries are such that they could need replacement every three to five years.

Information for the Wireless Instrument user

Warning: Changes or modifications to this unit not expressly approved by 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 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.



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