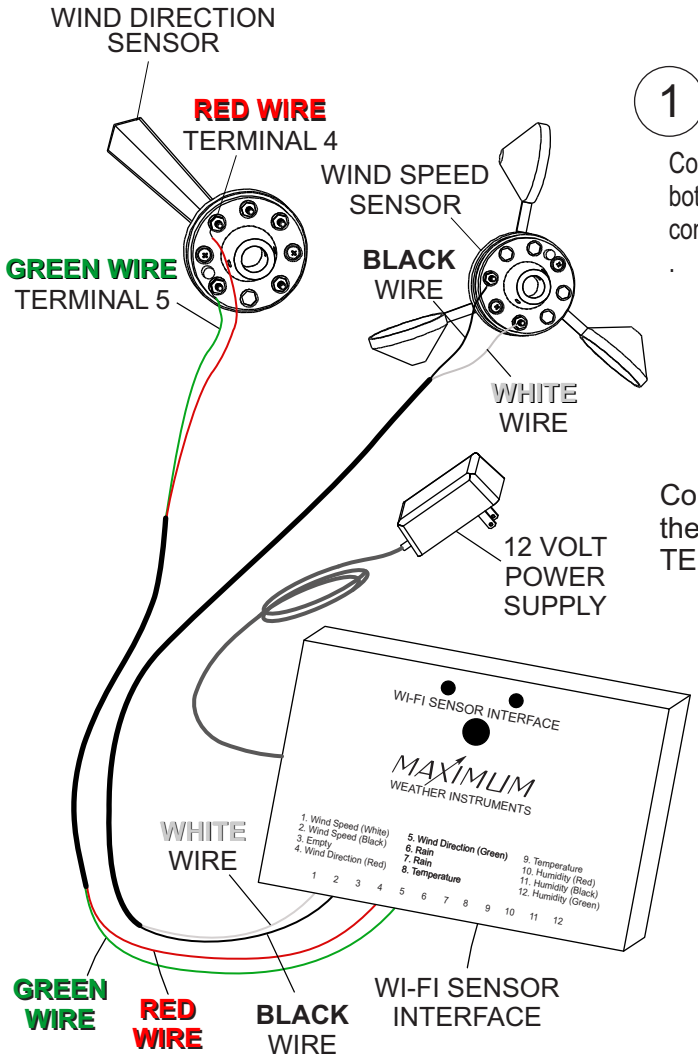
MAESTRO
WI-FI
INSTALLATION

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



1

Connect the of the 2-conductor **RED** and **GREEN** wires to the bottom of the WIND DIRECTION SENSOR. Note that the **RED** wire connects to TERMINAL 4 and the **GREEN** wire goes to TERMINAL 5.

.

2

Connect the other ends of the **RED** and **GREEN** wires to the WI-FI SENSOR INTERFACE. The **RED** wire connects to TERMINAL 4 and the **GREEN** wire connects to TERMINAL 5.

3

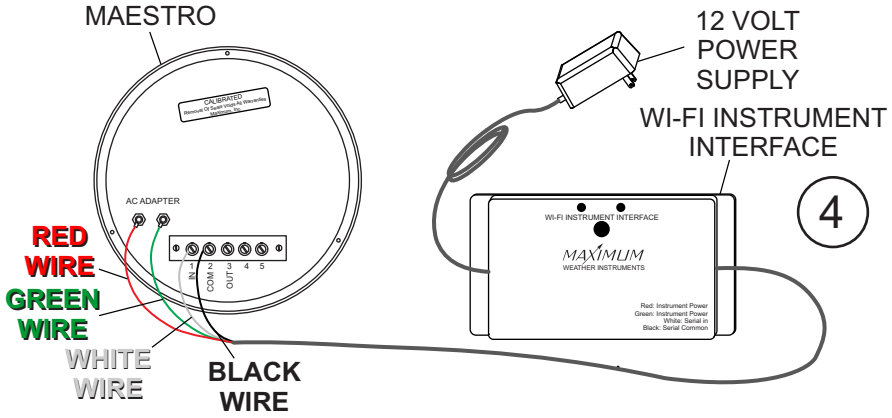
Connect the **BLACK** and **WHITE** wires to the terminals of the WIND SPEED SENSOR.

4

Connect the other ends of the **BLACK** and **WHITE** wires to TERMINALS 1 and 2 of the WI-FI SENSOR INTERFACE.

MAXIMUM INC.
Samuel Barnett Boulevard
New Bedford, MA 02745
(508) 995-2200

MAESTRO
INSTALLATION
BENCH TEST (CONTINUED)



4

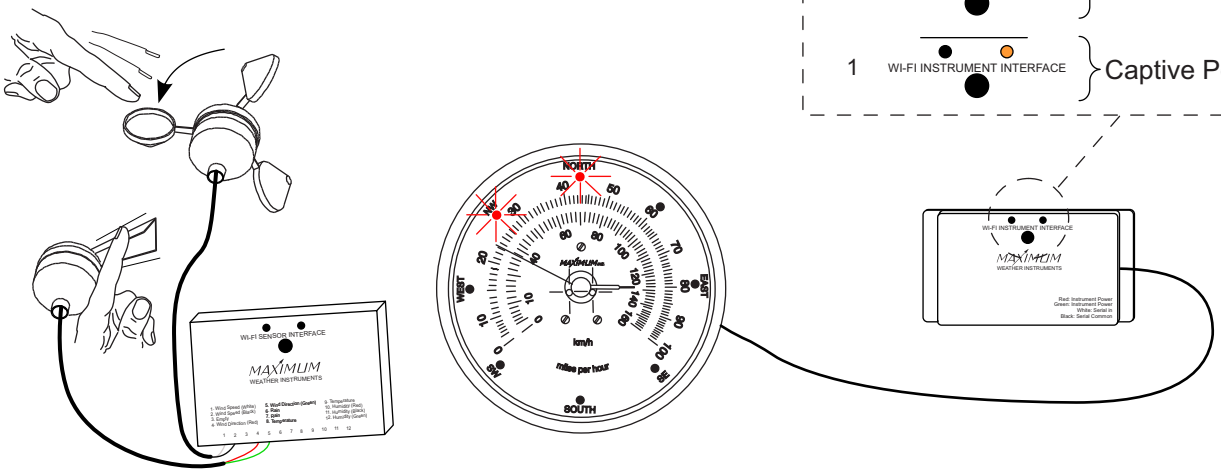
Connect the **RED** and **GREEN** wires to the terminals labeled AC ADAPTER as shown in the illustration. Connect the **WHITE** wire to the number 1 terminal and connect the **BLACK** wire to the number 2 TERMINAL.

5

Plug in the 12 volt power supplies on both the Instrument Interface and the Sensor Interface and observe the LED's as they run through the boot up sequence. Also turning the wind direction sensor and spinning the wind speed sensor should promote a change on the Maestro's dial.

BENCH TEST
BOOT SEQUENCE

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



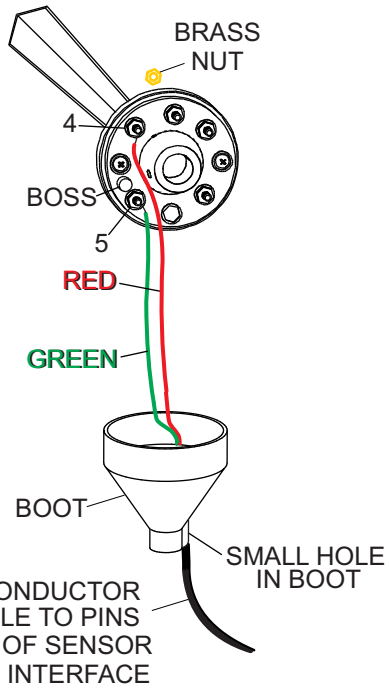
Unplug both 12 volt power supplies and remove the wiring and cables and proceed with a permanent installation.

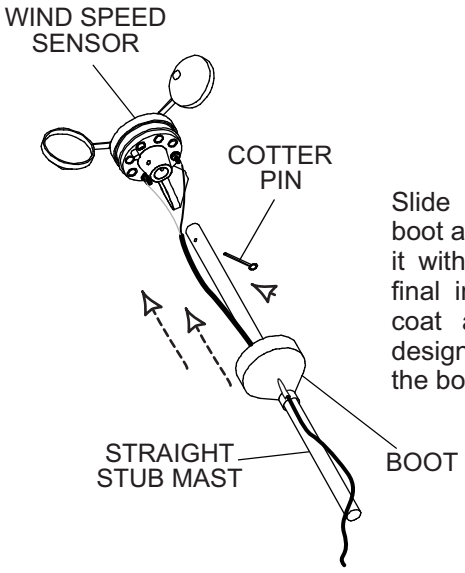
MAXIMUM INC.
Samuel Barnett Boulevard
New Bedford, MA 02745
(508) 995-2200

MAESTRO
WI-FI
INSTALLATION

1

Feed the terminal lug end of the 2-conductor cable through a rubber boot and connect the lugs to the terminals on the bottom of the wind-direction sensor with the brass nuts from the Hardware Pack. The **RED** wire connects to terminal 4, the **GREEN** to 5. Do NOT adjust the nuts that are already on the sensor.



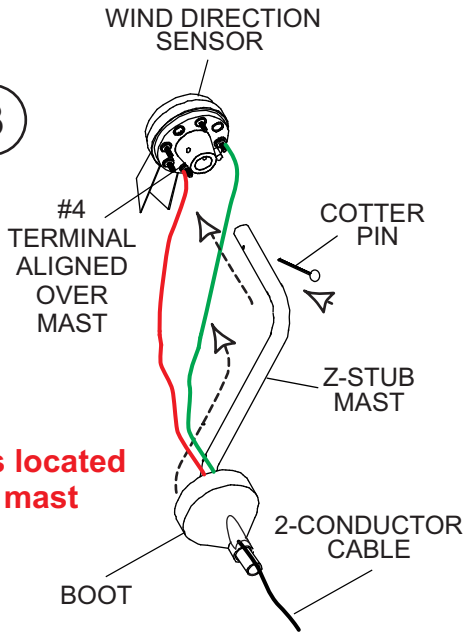


2

Slide the straight stub mast through the black rubber boot and insert it into the WIND SPEED SENSOR, securing it with the supplied stainless steel cotter pin. Once the final installation is made and proper function is verified, coat all the wire connections with a silicone sealant designed for electrical connections (not supplied). Slip the boot over the base of the sensor.

3

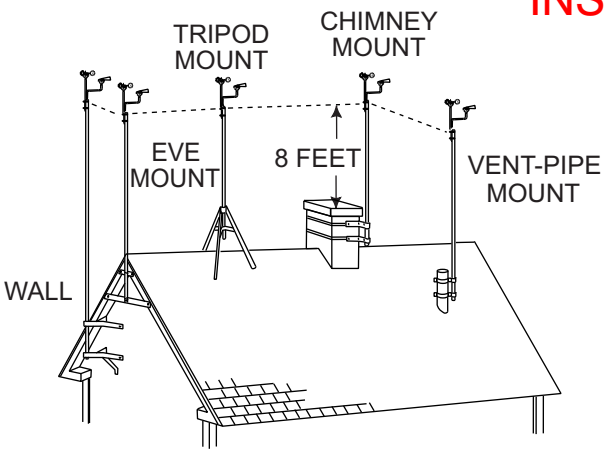
Slide the "Z" shaped mast through the black rubber boot and insert it into the WIND DIRECTION SENSOR. Align the sensor so that the number 4 TERMINAL is located over the horizontal section of the "Z" shaped mast and secure it with the supplied stainless steel cotter pin. Once the final installation is made and proper function is verified, coat all the wire connections with a silicone sealant designed for electrical connections (not supplied). Slip the boot over the base of the sensor.



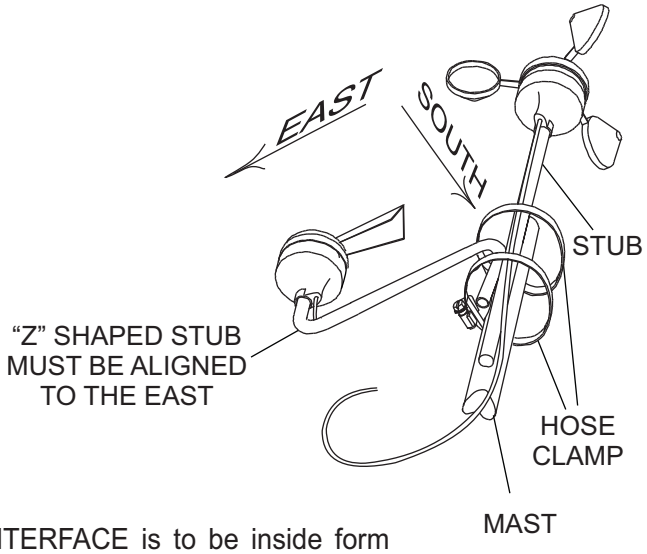
Align the sensor so that the number 4 terminal is located over the horizontal section of the "Z" shaped mast

MAXIMUM INC.
30 Barnet Boulevard
New Bedford, MA 02745
(508) 995-2200

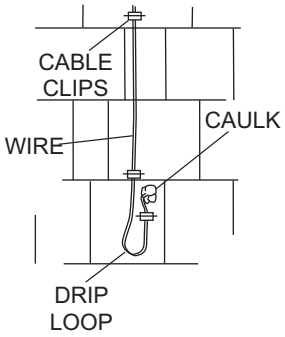
MAESTRO
WI-FI
INSTALLATION
(continued)



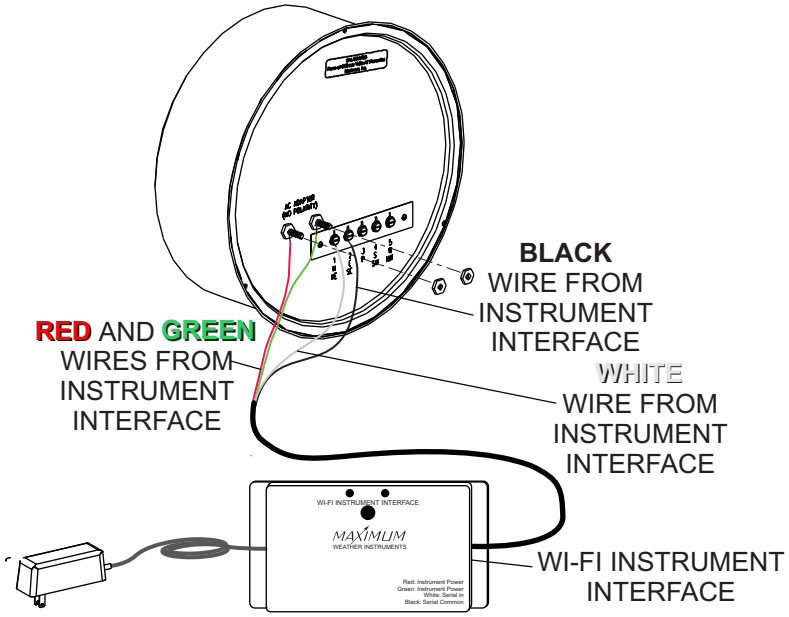
4 Follow the instructions supplied with the antenna mount that you purchased and secure the mast to the mount. The "Z" shaped stub mast must be oriented East for accurate wind direction display on the meter.



5 If the WI-FI SENSOR INTERFACE is to be inside form a drip loop at least eight inches below the point of entry into the building. Anchor any exposed wire with insulated cable clips. Run the wire into the building to the location where the SENSOR INTERFACE will be located. Caulk any holes when done.



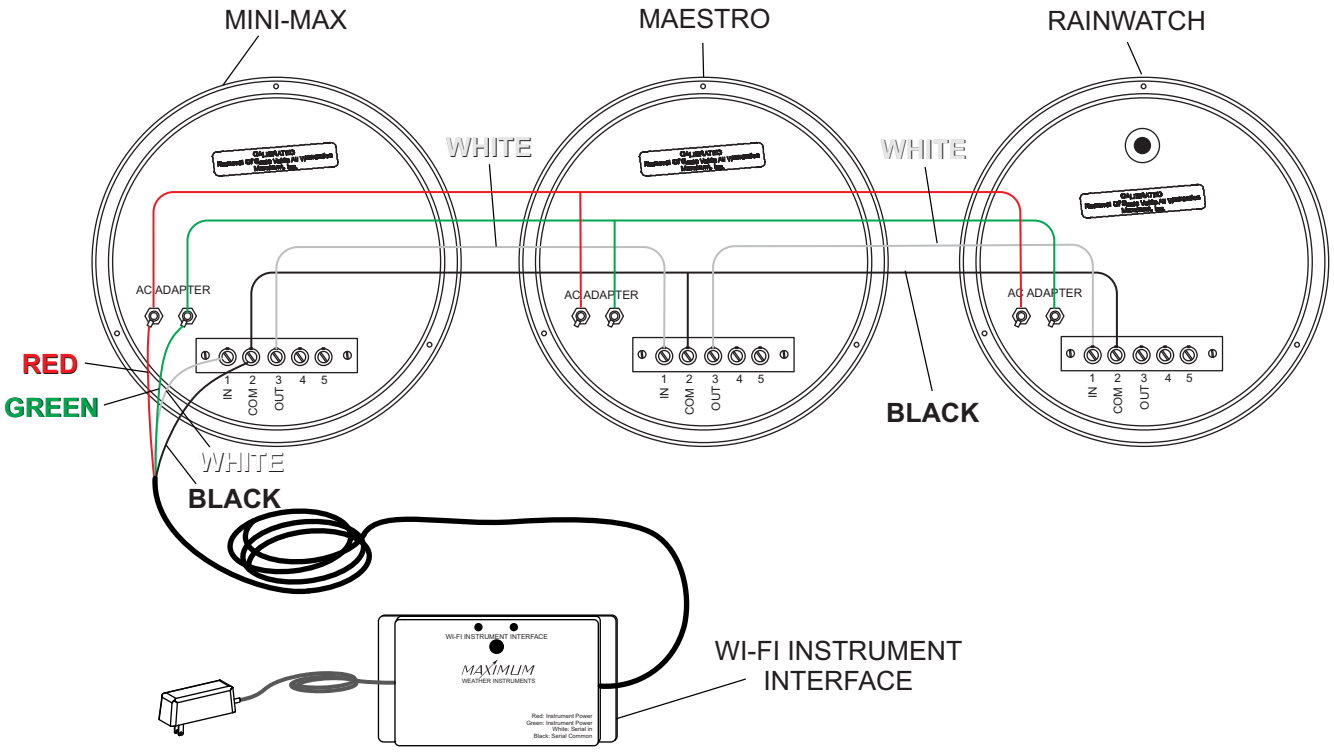
6 Attach the wires to the rear of the brass INSTRUMENT as shown. The **RED** and **GREEN** wires from the INSTRUMENT WI-FI INTERFACE connect to the TERMINALS marked AC ADAPTER. The WHITE wire connects to TERMINAL marked "1" and the **BLACK** wire to TERMINAL marked "2". (Do **NOT** adjust the nuts that are already on the meter.)



MAXIMUM INC.
Samuel Barnett Boulevard
New Bedford, MA 02745
(508) 995-2200

MAESTRO

WI-FI
OPTIONAL INSTALLATION
WITH MINI-MAX AND RAINWATCH



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 RAINWATCH TERMINAL #2 (COM) to MAESTRO TERMINAL #2 (COM).

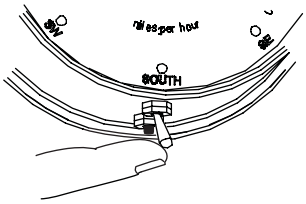
6. The order of the instruments does not matter i.e. the WI-FI could just as well be wired into the RAINWATCH and the MINI-MAX AND MAESTRO could be from the RAINWATCH

MAXIMUM INC.
Samuel Barnett Boulevard
New Bedford, MA 02745
(508) 995-2200

MAESTRO

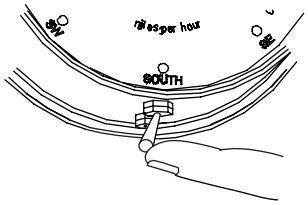
WI-FI

OPERATION



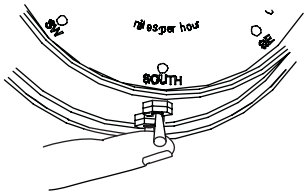
HIGHEST GUST

Holding the toggle switch to the right will display the speed and direction of the highest gust since the instrument was last reset.



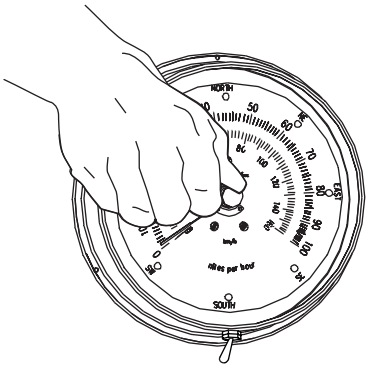
AVERAGE WIND SPEED & DIRECTION

Lightly holding the toggle switch to the left will display the two minute average wind speed and prevailing direction.



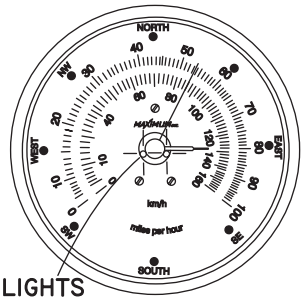
RESETTING MEMORY

To reset the gust register, average wind speed and direction recording, fully depress the small push button for five seconds. The MAESTRO will again begin storing new data.



TREND REGISTER POINTER

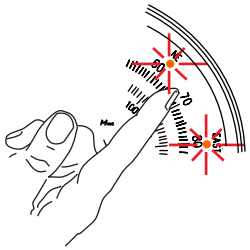
You can reset the Trend Register Pointer by turning the knob located in the center of the dial face.



EXTREMELY HIGH WIND SPEEDS

If the winds exceed 100mph, the instrument will automatically switch into double mode. Two lights in the center meter opening in the dial will flash simultaneously and the meter reading will indicate half the wind speed (75mph = 75 X 2 = 150mph). If the winds exceed 200mph, the instrument will automatically switch into triple mode. The two lights in the dial will light continuously and the reading will be one third the actual wind speed (75mph = 75 X 3 = 225mph). The MAESTRO will stay in triple mode until the wind drops below 150mph.

The wind direction may be read with 16-point accuracy. In this example both the NE and the E indicator lamps are illumitated. This would be read as East-Northeast.



MAXIMUM INC.
Samuel Barnett Boulevard
New Bedford, MA 02745
(508) 995-2200