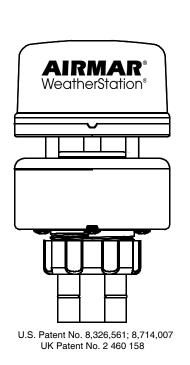


Owner's Guide & Installation Instructions

WeatherStation®Instrument



Land Models:

110WX

120WXH

150WX

200WX

200WXR

220WXH

Marine Models:

120WX

120WXH

220WX

220WXH

01/08/16

Off-shore Model: 200WX-IPX7

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IMPORTANT: Please read the Owner's Guide completely before proceeding.

Introduction

Thank you for purchasing Airmar's ultrasonic, WeatherStation Instrument. This exciting product has multiple sensors in a single unit—without any moving parts. The compact housing is waterproof with a single removable cable. Functions and features vary by model.

Features

- Waterproof housing and cable system
- Fast response time and update rate
- Stable and accurate true wind and heading data in dynamic conditions
- Can be programed to compensate for an installation that is not aligned to the front of the boat/vehicle and/or level
- Can be calibrated to compensate for magnetic deviation caused by ferrous metals and other electro-magnetic fields
- · GPS with WAAS and EGNOS

Table 1: Functions & Outputs

	110WX	120WX	120WXH	150WX	200WX	200WXR	200WX- IPX7	220WX	220WXH
Apparent wind speed and angle	/	~	~	/	~	~	/	~	~
True wind speed and direction				~	~	~	/	~	~
True wind speed relative to water				/	~	~	~	~	/
Heater keeps wind channel free of ice			~						/
Air temperature	/	~	*	/	~	~	~	~	*
Apparent wind chill temperature	/	~	*	~	~	~	~	~	*
True wind chill temperature				/	~	~	/	~	*
Barometric pressure	/	~	/	/	/	~	/	~	~
Relative humidity	Opt	Opt		Opt	Opt	Opt		Opt	
Dew point temperature	Opt	Opt		Opt	Opt	Opt		Opt	
Heat index temperature	Opt	Opt		Opt	Opt	Opt		Opt	
Rain intensity						~			
Rain accumulation						~			
Rain event duration						~			
Peak time of rain intensity						~			
3D Magnetic compass heading					~	~	~	~	~
2D Magnetic compass heading				/					
Heading relative to true north				/	~	~	/	~	~
Rate of Turn					~	~	~	~	~
Angle of pitch and roll				/	~	~	/	~	~
Rate of pitch & roll					~	~	/	~	~
Global Positioning System (GPS)				/	~	×	~	~	~
NMEA 0183: RS232	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
NMEA 0183: RS422	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
NMEA 2000®: CAN	~	~		~	~	~	~	~	
Agriculture compatible: CAN	Opt		Opt	Opt	Opt	Opt			Opt

^{*} When the Heater is ON, the Air Temperature and the Wind Chill Temperature functions are OFF. When the Heater is turned OFF, the Air Temperature and the Wind Chill Temperature functions resume automatically.

WARNING

Navigation Aid Only—The WeatherStation Instrument is an aid to navigation only and should never be solely relied upon. It is not a replacement for traditional navigation aids and techniques. Only official government charts contain all the information needed for safe navigation.

Follow the safety precautions below to reduce the risk of poor product performance, property damage, personal injury, and/or death.

WARNING: Correct Installation Important

The WeatherStation Instrument must be installed and operated according to the instructions in this owners guide.

WARNING: Installation Safety

Always wear safety goggles, a dust mask, and ear plugs when installing.

WARNING: Compass Safe Distance

The WeatherStation Instrument must be a minimum of 0.3m (1') from other standard and steering compasses.

WARNING: Do Not Install Near Artificial Magnetic Field

The WeatherStation Instrument must be a safe distance from ferrous metals and anything that can create a magnetic field to prevent interference to the magnetic compass.

WARNING: Electrical Safety

The power supply must be OFF before making electrical connections.

WARNING: Voltage

The power supply voltage must be that specified for the model.

Models with a heater
 Land and Off-shore models
 Marine models
 24 VDC only
 9 - 40 VDC
 9 - 24 VDC

WARNING: Fuse or Circuit Breaker

A safe installation requires a 0.5 amp fast-blow fuse or circuit breaker. Except, models with a heater require a 3 amp fast-blow fuse or circuit breaker.

WARNING: Battery

Make power connections to a power source that is isolated from the engine start battery(s). Voltage drops may cause the WeatherStation instrument to lose information and/or change operating mode.

WARNING: Calibrating the Compass

The internal compass may need to be calibrated after the WeatherStation Instrument is installed. Perform the pretest to determine if calibration is necessary.

WARNING: 150WX

These models incorporate a two-axis compass. Significant errors can occur in the heading when a vehicle/boat is pitching and rolling. If there is an error in the heading, there also will be a corresponding error in the true wind direction. Errors can be minimized or eliminated by using data from an external compass.

The Importance of Understanding True Wind Direction

When the WeatherStation Instrument is stationary, the direction *from which* the wind is blowing is known as the *true wind*. The WeatherStation Instrument is programed to measure the direction based upon the specific orientation of the sensor. For the WeatherStation Instrument to accurately calculate the true direction of the wind, *it must be installed and oriented correctly*.

To learn more about true and apparent wind direction, visit www.airmar.com and go to Installation Instructions and Owner's Guides > WeatherStation Instruments or see the "How the WeatherStation Instrument Works" on the WeatherCaster CD.

Adding External Sensors

Some WeatherStation Instruments can receive data from an external sensor(s). The WeatherStation Instrument will automatically detect whether a sensor(s) is internal, external, or not available at all. The WeatherStation Instrument gives priority to valid external-sensor data when available.

- NMEA 0183—Simply connect the sensor(s) to a Combiner or other NMEA 0183 repeater hardware.
- NMEA 2000®—Connect the sensor(s) to the NMEA 2000 network.

NOTE: When an external speed sensor is connected to both an NMEA 0183 device and an NMEA 2000 network, the WeatherStation Instrument will use NMEA 2000 data.

Speed-through-water sensor—An external speed sensor can be installed, such as an Airmar Smart[™] Sensor. Airmar recommends installing the DST800V to receive water depth, boat speed, and water temperature data.

Cables & Connecting/Converting Hardware

The WeatherStation Instrument can be connected to a device and/or network in several ways. You must have the correct cable and any needed converting/connecting hardware before beginning the installation.

WeatherStation Cables	Length	Part No.
NMEA 0183 Cable	10m	33-862-02
NMEA 0183 Cable (for heater models, RS422, no connect	or)10m	33-1167-01
 NMEA 0183 Cable (for heater models, RS422) 	10 m	33-1282-01
 NMEA 0183 Cable (for heater models, RS422) 	30 m	33-1282-02
NMEA 2000® Cable	6m	33-1029-02
NMEA 2000® Cable	10 m	33-1104-01

NOTE: Additional cable lengths are available.

Connecting/Converting Hardware	Length	Part No.
NMEA 0183 to USB Data Converter		33-801-01
• NMEA 0183 to USB Data Converter (for heater models,	RS422)	33-1081-01
NMEA 0183 to USB Combiner		NDC-4-AIR
NMEA 2000® CAN to USB U200 Gateway		33-727-01
NMEA 0183 & NMEA 2000® Splitter	15m	33-632-01
NMEA 0183 & NMEA 2000® Splitter	30 m	33-632-02

Mounts

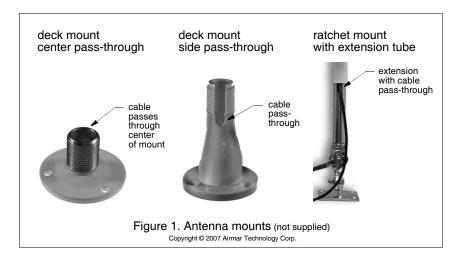
CAUTION: **Vehicles/boats traveling above 30MPH**—Do not use the plastic Cable Side-exit Adapter (part D) supplied. Purchase a stainless steel part. At high speeds, the plastic adapter may break, causing the WeatherStation Instrument to fall off.

NOTE: The WeatherStation nut has standard 1"-14 UNS or 3/4" NPT threads.

Antenna mount with standard marine 1" -14 threads and pass-through for cable (see Figure 1)

Hardware to install antenna mount

Extension tube (some installations)



Tools & Materials

Safety goggles

Dust mask

Ear plugs

Pencil

Level

Electric drill

Drill bits

Phillips screwdrivers

Teflon pipe-thread tape (optional)

Deck gland (some installations)

Grommets (some installations)

Cutting pliers (some installations)

Wire strippers (some installations)

Heat-shrink tubing (some installations)

Heat gun (some installations)

Multimeter (some installations)

Cable ties (some installations)

Where to Purchase Parts

Obtain parts from your instrument manufacturer or marine dealer.

Gemeco Tel: 803.693.0777 (USA) Fax: 803.693.0477

Email: sales@gemeco.com

Airmar EMEA Tel: +33.(0)2.23.52.06.48 (Europe, Middle East, Africa) Fax: +33.(0)2.23.52.06.49

Email: sales@airmar-emea.com

Choosing the Mounting Location

For accurate readings and a reliable GPS signal, selecting the best location for the WeatherStation Instrument is very important. Easy access and appearance should be secondary considerations. Since each installation is unique, the best separation distances from other equipment will vary depending on the particular equipment and how it is configured. Choose a location that balances the requirements below.

- The WeatherStation Instrument must be mounted in "clear air"—away from
 obstructions in any direction that will interfere with air flowing through the unit. If
 there is an obstruction, be sure to mount the WeatherStation Instrument at least
 2m (6') away. On land, avoid roof tops, chimneys, trees, etc.
- If possible, mount the WeatherStation Instrument higher than any other object.
 Mount it a minimum of 500mm (20") above the surrounding surfaces.
 Note that the higher the WeatherStation Instrument is mounted, the less accurate the pitch and roll readings will be.
- To prevent interference to the internal magnetic compass:
 - Mount a minimum of 0.3m (1') from other standard and steering compasses.
 - Mount away from any structures or equipment that contains ferrous metals.
 - Mount away from anything that may create a magnetic field such as magnetized materials, electric motors, electronic equipment, engines, generators, power/ignition cables, and batteries. For distances, follow the respective manufacturer's recommendations.
- To prevent interference to the internal GPS (see Figure 2):
 - It must have a clear view of the sky to receive satellite signals. Check for any obstructions such as other boats or buildings.
 - Mount it as far as possible from high-powered transmitting antennas to avoid mutual interference.
 - Mount it lower than any on-board Inmarsat communications antenna.
 - Mount above or below any radar beam. Do not mount within a radar beam.

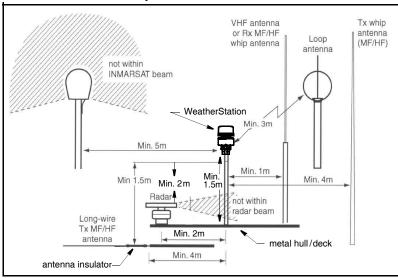


Figure 2. Antennas (Courtesy of Northstar BNT, Acton, MA)

Installing

CAUTION: The reflector plate and the waterproof film found in the wind channel of the WeatherStation Instrument are essential to its operation (see Figure 3). Be careful not to scratch the plate, puncture the film, or damage them in any way.

CAUTION: The WeatherStation Instrument must be installed upright and vertically—NOT tilted to one side. If the WeatherStation Instrument is tilted from the horizontal plane, it may introduce an error in the compass and wind readings.

CAUTION: To accurately measure the wind direction and vehicle/boat heading, the alignment indentation on the WeatherStation Instrument must be pointed correctly.

- Moving vehicle/boat—The alignment indentation must point forward and be parallel to the centerline of the vehicle/boat.
- Stationary surface—It is recommended that the alignment indentation point toward true north.

CAUTION: Do not tighten or align the WeatherStation Instrument by rotating the upper cap. Turning may sever internal connections and void the warranty. Grasp the lower housing below the reflector plate. Hand tighten only.

CAUTION: If you use a thread lock, use teflon pipe-thread tape. Do not use a liquid thread lock as it may weaken the plastic, causing it to swell and crack.

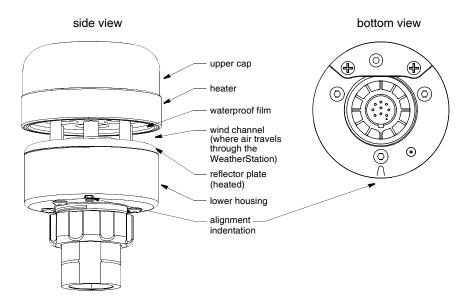


Figure 3. WeatherStation Instrument (120/220WXH shown)

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Permanent Mounting

- 1. Place the mounting hardware at the selected location. Orient any cable exit in the direction that you want the cable to travel.
- 2. Position the mounting hardware at a 90° angle to the mounting surface. If necessary, use shims to make the mounting surface level (see Figure 4).
- 3. Mark the holes for the screws (see Figure 1). If the cable will pass through the center of the mount, also mark that hole.

NOTE: If you are using a ratchet mount, be sure you have purchased an extension with a cable pass-through.

- 4. Drill the holes for the mounting screws and the cable exit if necessary. If the cable is to be fed through a deck, install a high quality deck gland.
- 5. Using purchased screws, fasten the mount in place.
- 6. Screw an extension tube onto the antenna mount if desired (see Figure 4).

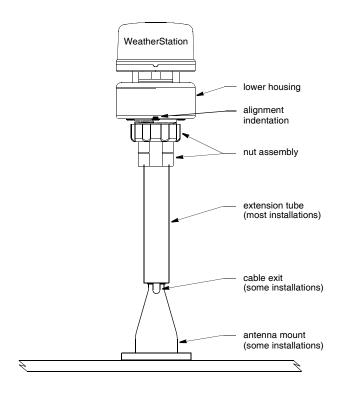


Figure 4. Installation (150WX shown)

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Attaching the Cable to the WeatherStation Instrument

- With the nut assembly on the cable near the WeatherStation connector, thread the cable through the extension tube (if used), antenna mount, and the cable exit. Be sure to leave several inches of cable extending beyond the nut assembly (see Figure 5).
- Screw the nut assembly onto the top of the antenna mount/extension tube.Hand tighten only. Do not over-tighten.

NOTE: If you use a thread lock, use teflon pipe thread tape only.

- 3. Remove the protective cover from the connector. (Save the cap to protect the connector, when the WeatherStation Instrument is removed.) Plug the connector into the WeatherStation Instrument. The alignment key on the connector fits into a notch in the base of the WeatherStation Instrument.
- 4. To accurately measure the wind direction, be sure to orient the alignment indentation correctly. Grasp the lower housing of the WeatherStation Instrument below the reflector plate and hold it in the proper position (see Figure 4).
 - Moving vehicle/boat—The alignment indentation must point forward and be parallel to the centerline of the vehicle/boat.
 - Stationary—It is recommended that the alignment indentation point toward true north.
- 5. Slide the captive nut upward and screw it onto the lower housing of the WeatherStation Instrument (see Figures 4 and 5). **Hand tighten** only. Do not over-tighten. Be careful not to rotate the WeatherStation Instrument changing the alignment or loosen the nut assembly from the antenna mount/extension tube.

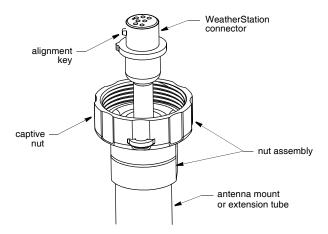


Figure 5. Attaching the cable to the WeatherStation Instrument Copyright © 2007 - 2011 Airmar Technology Corp.

Cable Routing & Connecting

Depending on the equipment you will be using, route the WeatherStation cable to a Converter, Combiner, or Splitter; an NMEA 0183 display or an NMEA 2000 network. After reading the cautions below, go to the appropriate instructions.

CAUTION: Do not remove the waterproof connector(s) to ease cable routing. Buy a cable without a connector. Instructions for wiring are supplied.

CAUTION: To reduce electrical interference from other electrical wiring and any onboard equipment with strong magnetic fields such as: radar equipment, radio transmitters, engines, generators, etc., separate the cables by at least 1 m (3'). Ensure that all the cable shields are appropriately grounded.

CAUTION: Be careful not to tear the cable jackets when passing them through compartments, bulkheads, or walls. Use grommets to prevent chaffing.

CAUTION: Use a multimeter to check the polarity and the connections to the power supply before applying power to the WeatherStation Instrument.

CAUTION: Coil any excess cable(s) and secure it with cable ties to prevent damage.

Connecting to a Data Converter, Combiner, or Splitter

Follow the installation instructions that are supplied with the unit.

Connecting to an NMEA 0183 Display

Route the WeatherStation cable to the display. Do not fasten the cable in place at this time.

Connector on Display End

If your WeatherStation cable has a connector on the display end, and it can be plugged into the port on your NMEA 0183 display; do so now. Coil any excess cable and secure it with cable ties to prevent damage. Fasten the cable in place.

No Connector on Display End: Wiring

If your WeatherStation cable does not have a connector on the display end, it must be hard wired. Referring to the owner's manual that came with your display, connect the colored wires as shown in Figure 6, or see Figure 7 if your WeatherStation Instrument has a heater.

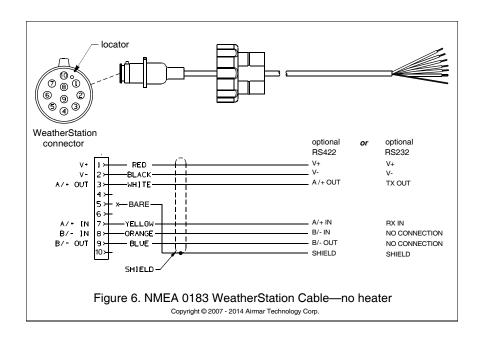
CAUTION: Your WeatherStation Instrument has either an RS422 *or* RS232 interface. You must follow the wiring diagram in Figure 6 or 7 that matches your WeatherStation Instrument. If it is wired for the wrong interface, it will not transmit and receive data properly.

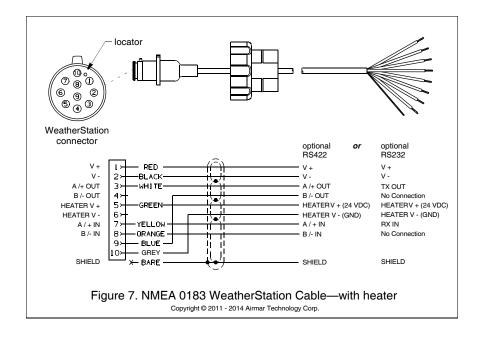
CAUTION: **Heater**—It is recommended to use the same 24VDC power supply for both the WeatherStation Instrument and the heater. If using separate power sources, ensure the supply grounds are common.

NOTE: If your display does not have NMEA 0183 output connections, the yellow and orange wires are not needed. Apply heat-shrink tubing to each unused wire. (Alternatively, the yellow and orange wires can be connected to an external sensor.)

NOTE: The display power may be wired directly to the WeatherStation cable, or it may be wired separately. Models with a heater MUST be wired separately.

- 1. Allowing an extra 25 cm (10") for wiring ease, cut the cable to length.
- 2. Strip 60mm (2-1/2") of the outer jacket and foil shielding from the cut end of the cable (see Figure 6 or 7).
- 3. Strip 10 mm (3/8") of conductor insulation from the end of each colored wire.
- 4. Protect the cable's foil shielding from causing a short by using heat-shrink tubing around the jacket where the wires emerge from the cable. The tubing must overlap the wires a minimum of 6mm (1/4"). Shrink the tubing using a heat gun.
- 5. Being sure the power supply is OFF, connect the wires to the display.
- 6. Fasten the cable in place.
- Your installation is complete. To begin receiving data, refer to the owner's manual that came with your display.



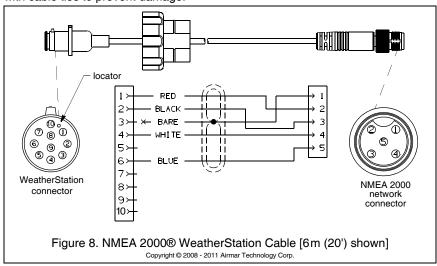


Connecting to an NMEA 2000® Network

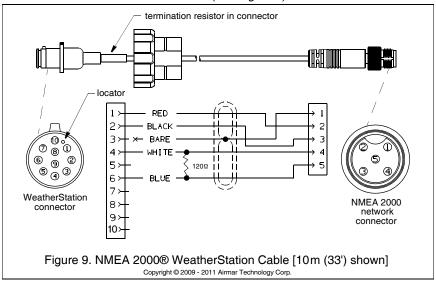
CAUTION: Models with a heater cannot be used with an NMEA 2000 network.

CAUTION: Only two termination resistors are required on an NMEA 2000 network. More than two will degrade the bus performance.

Route the WeatherStation cable to the NMEA 2000 network. Plug the NMEA 2000 connector into the network node (see Figure 8). Coil any excess cable and secure with cable ties to prevent damage.



NOTE: WeatherStation cables longer than 6m (20') have a termination resistor built into the WeatherStation connector (see Figure 9).



Calibrating the Compass

WARNING: The internal compass may need to be calibrated after the WeatherStation Instrument is installed for maximum accuracy. Perform the pretest below to determine if calibration is necessary.

CAUTION: Boat—The Pretest and AutoCalibration Procedure must be done in calm seas in a 0.8 km (0.5 mile) open area away from other boats and ferrous objects such as structures and aids to navigation. Avoid congested areas and waters with strong currents as calibration will be difficult and possibly hazardous.

Pretest

Go to an appropriate site.

- **Vehicle**—Drive to an open parking lot or field, away from other vehicles and ferrous objects.
- Boat—In calm seas, navigate to an open area of water, 0.8 km (0.5 mile) of open space away from other boats and ferrous objects.

While making a full circle, compare the WeatherStation heading data to another compass. Check all headings. If the data agrees, there is no magnetic influence on the WeatherStation Instrument. The compass does NOT need to be calibrated. If the data does not agree, continue with the calibration instructions below.

How to Calibrate

Calibration can be done in one of two ways.

- Calibrate the compass using the WeatherCaster™ software and a PC.
- · Follow the AutoCalibration Procedure below.

AutoCalibration Procedure

IMPORTANT: Calibration requires the vehicle/boat to complete 2 to 3 circles.

IMPORTANT: In the event of a calibration failure, repeat the procedure.

- 1. At the site where the pretest was performed, select the display page on the NMEA Instrument that shows Heading.
- Shut OFF and then turn ON the DC power that is connected to the WeatherStation Instrument.
- 3. Within 2 minutes of cycling power to the WeatherStation Instrument, start the vehicle/boat in a slow [4.5 to 7 MPH (4 to 6 knots)] circular turn that takes about 2 to 3 minutes to complete.*
 - If the vehicle/boat completes 1.5 circles within 3 to 4.5 minutes, AutoCalibration will begin. Heading will stop being reported on any NMEA 0183 or NMEA 2000 display until the calibration is finished.
- 4. Keep turning in the same circle for 1 to 2 more complete circles. Do not change the speed or rate of turn through the circle.
- 5. When calibration is completed successfully, Heading will return to the display. If calibration fails, the display will flash Heading ON and OFF in 10 second intervals for 60 seconds. (Display times may vary by manufacturer.)
- * The optimum rate of turn is 180°/ minute: 3°/second, 30°/10 seconds, 45°/15 seconds, and 90°/30 seconds.

Maintenance

CAUTION: Do not disassemble the WeatherStation Instrument. There are no user-serviceable parts inside. Removing the three screws holding the lower housing will damage the waterproof seal, voiding the warranty.

CAUTION: Do not immerse in water or pressure wash. Doing so may allow water to infiltrate the WeatherStation Instrument, voiding the warranty.

CAUTION: The reflector plate and the waterproof film found in the wind channel of the WeatherStation Instrument are essential to its operation. The waterproof film protects the transducers, so be careful to keep it intact. Do not to scratch the reflector plate or damage it in any way.

CAUTION: Avoid damaging the rain sensor. If the umbrella becomes chipped or cracked, readings from the sensor may be incorrect. If the umbrella does become damaged, return the WeatherStation Instrument to the factory to replace the umbrella and re-calibrate the rain sensor.

IMPORTANT: Keep the wind channel free of SPIDER WEBS, insects, dirt, and other debris. Keep the temperature and humidity sensors clean.

Cleaning

Since the WeatherStation Instrument has no moving parts, it requires minimal maintenance. Clean with a damp cloth and mild household detergent (see Figure 10). Gently thread an alcohol wipe through the wind channel to remove spider webs and any debris.

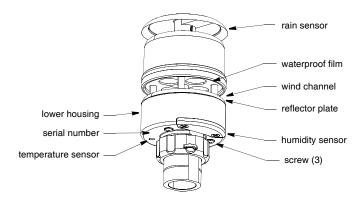


Figure 10. Maintenance (200WXR shown)
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Humidity Sensor: 110WX, 150WX, 200WX

- 1. Remove the two screws from the humidity sensor or blank (see Figure 11).
- 2. Remove the sensor or blank.
- 3. Push the new humidity sensor into place. Fasten it with the two screws supplied. Using a torque wrench, apply 0.25 0.30 Nm. **Do not over-tighten**.

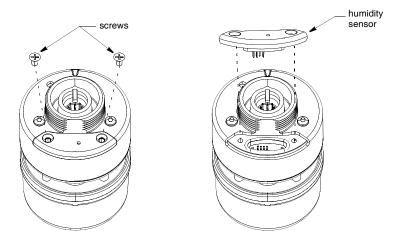


Figure 11. Replacing the humidity sensor

Heater Operation: 120WXH, 220WXH

NOTE: When the Heater is ON, the Air Temperature and the Wind Chill Temperature functions are OFF. When the Heater is OFF, the Air Temperature and the Wind Chill Temperature functions resume automatically.

The heater can operate in three different modes.

- · OFF—The heater is always off.
- Automatic—The heater switches ON when the housing temperature falls below 1°C. It switches OFF when the housing reaches >5°C.

NOTE: The temperature can be adjusted between 2°C and 20°C.

• User Control—This mode can be accessed by serial command or a physical switch on the power supply.

Software

Revisions

Airmar may release updated versions of both the WeatherStation firmware and the WeatherCaster™ software. Periodically check Airmar's website at www.airmar.com to down-load the latest revision or contact Technical Support for a CD.

Installing WeatherCasterTM Software

Follow the instructions in the WeatherCaster Software Guide.

Troubleshooting

No Readings or Inaccurate Readings

- Is there power to the WeatherStation Instrument?
- Are all the connections tight?
- Is the cable-run free of kinks?
- Is the wiring correct?
- Are there any obstructions in the wind channel?
 Keep it free of spider webs, insects, dirt, and other debris.
 Be careful not to puncture the waterproof film or scratch the reflector plate.
- · Are the temperature and humidity sensors clean?
- Is there ice on the WeatherStation Instrument?

No GPS Fix

• Does the WeatherStation Instrument have a clear view of the sky?

Wind Readings Are Too Low

• Is the WeatherStation Instrument mounted forward and low on the boat/vehicle's hardtop in dead air?

Move the WeatherStation instrument farther back and higher (see Figure 12).

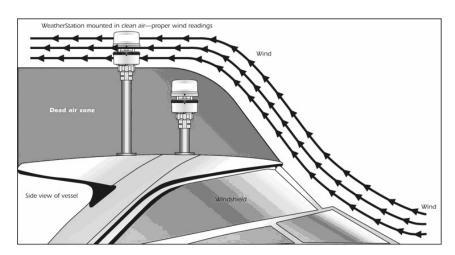


Figure 12. Boat/vehicle mounting location (boat shown)

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Rain Sensor Not Working

The rain sensor functions by detecting individual rain drops. To check whether the rain sensor is working, tap gently and rhythmically with a pencil to imitate rain drops. This should produce a reading which indicates that the sensor is active. However, the reading will not be calibrated. The sensor is calibrated only for true raindrops falling from a cloud. Do not pour water on the sensor to check whether it is working. The sensor depends on individual drops and will not respond properly to a stream of water.

Heater Not Working

• Is there 24VDC supply voltage to the heater?

NOTE: The heater does not cycle ON until the air temperature reaches 1°C.

Technical Information

Additional Data Available from the WeatherStation

There are parameters that the WeatherStation Instrument can make available to the user. Usually, more data is available from the WeatherStation Instrument than can be displayed in a reasonable format on a screen. Also, if all the data was continuously transmitted to the display, the update rate would be too slow and could not keep up with WeatherStation measurements. Consequently, some parameters are transmitted while others are not, based on a preselected list. Note that those parameters not transmitted are, nevertheless, retained in the WeatherStation Instrument. For more detailed information, visit www.airmar.com and go to Installation Instructions and Owner's Guides > WeatherStation Instruments or see the "Technical Manual" on the WeatherCaster CD.

NMEA 2000®: Load Equivalency Number

LEN is the amount of current a devise draws from an NMEA 2000 network. (1 LEN = 50 mA)

NMEA 2000 Load Equivalency Number (LEN) 120WX......2 220WX......4

Abbreviations & Acronyms

CD Compact Disk

CAN Controller Area Network

EGNOS European Geostationary Navigation Overlay Service

GPS Global Positioning System
LEN Load Equivalency Number
NPT National Pipe Thread

NMEA National Marine Electronics Association

Opt. Optional

PC Personal Computer
UNS Unified National Standard
USB Universal Serial Bus
VDC Volts of Direct Current

WAAS Wide Area Augmentation System

Glossary

Firmware The software within the WeatherStation hardware

WeatherCaster™ software The PC application program

Trademarks

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