

WeatherStation® Multisensors

A Compact, Rugged Instrument for Informed Decision-Making



Ultrasonic Instruments

Rugged Reliability,
Proven Performance.

The Airmar WeatherStation Instruments are unique, as they are the only weather monitoring system that can report Dynamic True and Apparent wind speed and direction/angle in one compact housing with no moving parts or external interfaces.



Ultrasonic Wind Measurement

Dynamic True and Apparent wind speed and direction with no moving parts



Relative Humidity (optional)

Field serviceable RH sensor with calculated dew point



Rain Measurement

Maintenance free acoustic rain measurement including duration, intensity and amount with 95% accuracy



Barometric Pressure

Accurate atmospheric pressure measurement



GPS/GNSS

Position, COG, SOG, time stamping



Solar Stabilization

Solar radiation shield increases the accuracy and stability of temperature and relative humidity readings



Air Temperature

With calculated heat index and wind chill when RH module is installed



3-Axis Compass

With dynamic stabilization and better than 1° accuracy



Wireless Communication to CAST App

For viewing instrument data, configuring sensors and performing firmware upgrades



3-Axis Accelerometer

For pitch and roll



3-Axis Rate Gyro

For rate-of-turn data



	110WX	300WX	300WX-IP67	220WXH	150WXS	150WXS
Apparent wind speed and angle	✓	✓	✓	✓	✓	✓
Dynamic True wind speed and direction		✓	✓	✓	✓	✓
Barometric pressure	✓	✓	✓	✓	✓	✓
Air temperature	✓	✓	✓	✓	✓	✓
10 Hz GPS (Position, COG, SOG)				✓	✓	✓
GNSS-Enabled (Position, COG, SOG)		✓	✓			
Three-axis accelerometer for pitch & roll		✓	✓	✓	✓	✓
Two-axis solid-state compass: Better than 1° static compass accuracy					✓	
Three-axis solid-state compass with dynamic stabilization: Better than 1° static compass accuracy Best-in-class 2° dynamic compass accuracy		✓	✓	✓		✓
Three-axis rate gyros provide rate-of-turn data		✓	✓	✓		✓
Solar shield					✓	✓
Rain accumulation, duration, intensity						✓
Heater				✓		
Relative humidity (field-serviceable)	✓	✓			✓	✓
Calculated dew point	Optional	Optional			Standard	Standard
Calculated heat index						
Weatherproof rating	IPX6*	IP64	IP67	IPX4	IPX4	IPX4
Wireless connectivity to CAST app		✓	✓			
Automatic Baud Rate Detection (250kbps/500kbps)		✓	✓			
Operating voltage	9-40 VDC	9-40 VDC	9-40 VDC	12-24 VDC	9-40 VDC	9-40 VDC
Output options include: Hardware Interfaces: Serial RS232, Serial RS422, CAN Data Protocols: Serial – NMEA 0183, CAN – NMEA 2000 Serial Data Transmission Code: ASCII	✓	✓	✓	✓ (0183 only) cannot be used with an NMEA 2000® CAN bus network	✓	✓ (0183 only) cannot be used with an NMEA 2000® CAN bus network

* Rating stated is without optional RH sensor installed.



WEATHERSTATIONWX.COM



©2026 AIRMAR Technology Corporation

WXSERIES_SHEET_rH 08/27/26

As AIRMAR constantly improves its products, all specifications are subject to change without notice. All AIRMAR products are designed to provide high levels of accuracy and reliability, however they should only be used as aids to navigation and not as a replacement for traditional navigation aids and techniques. WeatherStation® and are registered trademarks and trademarks of AIRMAR Technology Corporation. AMPHENOL is a registered trademark of Amphenol Corporation. Other company or product names mentioned in this document may be trademarks or registered trademarks of their respective companies, which are not affiliated with AIRMAR.