

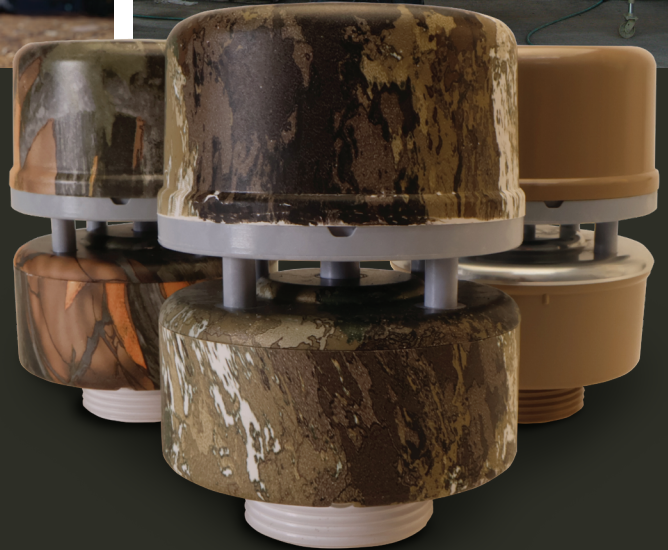
# WeatherStation® Multisensors for Military Applications

Compact, Rugged Instrument for Informed Decision-Making



Airmar's ultrasonic WeatherStation® instruments deliver accurate, reliable weather data from a rugged, compact, maintenance-free design with no moving parts. These all-in-one multisensors can measure up to seven different parameters plus calculated values and deliver that data on protocols used by marine and land-based systems.

Airmar's best-in-class WeatherStation instruments take sensing to the next level with the measurement of SOG/COG, pitch & roll, rate-of-turn, and position. The integrated 3-axis compass and GNSS enable the unique measurement of dynamic true wind speed and direction from mobile platforms.



**Ultrasonic Wind Measurement**  
Dynamic True and Apparent wind speed and direction with no moving parts



**GNSS-Enabled**  
Position, COG, SOG, time stamping



**Barometric Pressure**  
Accurate atmospheric pressure measurement



**3-Axis Accelerometer**  
For pitch and roll



**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



**3-Axis Rate Gyro**  
For rate-of-turn data



**Relative Humidity (optional)**  
Field serviceable RH sensor with calculated dew point



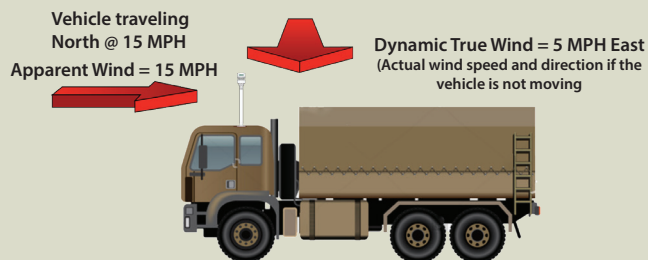
**Solar Stabilization**  
Solar radiation shield increases the accuracy and stability of temperature and relative humidity readings



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

## Understanding Dynamic True and Apparent Wind

Airmar's WeatherStation Instruments calculate both dynamic true and apparent wind speed and direction. Dynamic true wind is the wind relative to North but also corrected for the speed and direction of the vessel. WeatherStation WX instruments integrate a GPS and 3-Axis compass, which allows for the calculation of the dynamic true wind speed and direction based upon the apparent wind, speed of the vehicle, and vehicle heading. Dynamic True wind measurement can be critical for any application where the platform is moving.



Custom colors and camo patterns available.

	110WX	300WX	300WX-IP67	300WXH-Heated	150WXS	150WXRS
Apparent wind speed and angle	✓	✓	✓	✓	✓	✓
Dynamic True wind speed and direction		✓	✓	✓	✓	✓
Barometric pressure	✓	✓	✓	✓	✓	✓
Air temperature	✓	✓	✓	✓	✓	✓
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 stabilized temperature					✓	✓
Rain accumulation, duration, intensity						✓
Relative humidity (field-serviceable ) Calculated dew point Calculated heat index	Optional	Optional			Standard	Standard
Weatherproof rating	IPX6*	IP66*	IP67	IP66	IPX4	IPX4
Operating voltage	9-40 VDC	9-40 VDC	9-40 VDC	12-24 VDC	9-40 VDC	9-40 VDC
Wireless connectivity to CAST app		✓	✓	✓		
Automatic Baud Rate Detection (250kbps/500kbps)		✓	✓	✓		
Output options include: Hardware Interfaces: Serial RS232, Serial RS422, CAN Data Protocols: Serial – NMEA 0183 CAN – NMEA 2000®, J1939, ISOBUS Serial Data Transmission Code: ASCII	✓	✓	✓	(0183 only)	✓	✓

\* Rating stated is without optional RH sensor installed.



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