WeatherStation® Multisensor – Ultrasonic Instruments for Measurement of Wind

A Compact, Rugged Instrument for Informed Decision-Making

150WXS Multisensor

AIRMAR's WeatherStation series provides accurate, site-specific, weather data from a single compact device. As an integral component of a comprehensive weather station, the WeatherStation WXS measures seven critical weather parameters in real-time.

The compact housing features ultrasonic wind and barometric pressure measurements. Plus the solar-radiation shield increases the accuracy of temperature and relative humidity readings. The maintenance-free features of the WeatherStation WXS makes it perfect for stationary mounting locations.

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

Barometric Pressure
Accurate atmospheric pressure measurement

Air Temperature
With calculated heat index and wind chill

10 Hz GPS
Position, COG,SOG, time stamping

3-Axis Accelerometer
For pitch and roll

2-Axis Compass
Better than 1° static compass accuracy

Relative Humidity
Field serviceable RH sensor with calculated dew point

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

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AIRMAR®

SPECIFICATIONS

Wind Speed
    Range: 0-40 m/s
    Accuracy: 2 knots RMS @ 20 knots
    Resolution: 0.1 m/s
    Calculations: User configurable damping
Wind Direction
    Range: 0° to 359.9°
    Accuracy: ± 2.5° RMS @ 20 knots
    Resolution: 0.1°
    Calculations: User configurable damping
Air Temperature
    Range: -40° to 80°C (-40 to 176°F)
    Accuracy: ±0.3°C at 20°C
    Resolution: 0.1°C
Relative Humidity
    Range: 0 to 100% RH
    Accuracy: ±3% RH at 0 to 90% RH at 20°C
    Resolution: 0.1% RH
Barometric Pressure
    Range: 300 to 1100 hPa
    Accuracy: ±1 hPa @ 25°C
    Resolution: 0.1 hPa

Two-axis Compass
    Range: 0 to 359.9°
    Accuracy: 1° static heading accuracy
    Resolution: 0.1°
Pitch and Roll
    Measurement Type: MEMS
    Range: 60°
    Accuracy: ±1° in range of ±30°
    Resolution: 0.1°
GPS Position Accuracy: 2.5 m (8') CEP
Operating Temperature Range: -25 to 55°C (-13 to 131°F)
Operating Voltage
    Supply Voltage: 9 VDC to 40 VDC
    Supply Current (at 12 VDC): <75 mA (<0.9 W)
Weight
    325 grams (0.71 lb)
Mounting-thread Size, Base M39: Adapter on cable is standard 1"-14 UNS (3/4" NPT optional)
Certifications and Standards: CE, IPX6, RoHS, IEC61000-4-2, IEC60945, IEC60950_1C, IEC60950_22A, EN55022, EN55024, EN14982
Note: Cables sold separately

COMMUNICATIONS

Hardware Interfaces: Serial RS232, Serial RS422, CAN
Data Protocols: Serial – NMEA 0183, CAN – NMEA 2000
Serial Data Transmission Code: ASCII
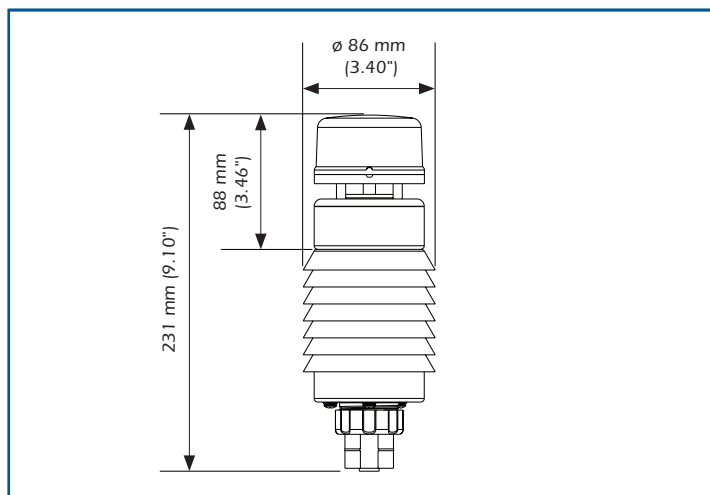**Serial Output Rate**: 1 Hz typical. User selectable. 10 Hz max recommended

PART NUMBERS

150WXS-RS232-100318
150WXS-RS422-100319

Cables sold separately unless otherwise specified
RH = Relative Humidity

DIMENSIONS

ø 86 mm (3.40")
88 mm (3.46")
231 mm (9.10")

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