

Industrial Ultrasonic Transducers for Off-Highway Equipment Manufacturers



Sensor technology for your environment.



Tanya Shenk
phone: 1-603-249-7187 email: tanya.shenk@airmar.com

 **AIRMAR**[®]
TECHNOLOGY CORPORATION

Product Overview

MODEL	DIAMETER	TYPICAL RANGE	BEAMWIDTH
AR20	ø 205 mm	80 cm to 40 m	7°
AR30	ø 106 mm	80 cm to 25 m	12°
ARK30	ø 106 mm	80 cm to 25 m	12°
AR41	ø 92.2 mm	35 cm to 15 m	14°
ARK41	ø 92.2 mm	35 cm to 15 m	14°
AR50	ø 92.2 mm	30 cm to 10 m	12°
AR50CH	ø 57 mm	30 cm to 10 m	12°
ARK50-THD	ø 51 mm 2" pipe thread	35 cm to 10 m	10°
AT50	ø 57 mm	35 cm to 10 m	12°
ATK50	ø 57 mm	35 cm to 10 m	10°

MODEL	DIAMETER	TYPICAL RANGE	BEAMWIDTH
ARK75-THD	ø 40.6 mm 1.5" pipe thread	25 cm to 7 m	14°
AT75	ø 38 mm	25 cm to 7 m	15°
ATK75	ø 38 mm	25 cm to 7 m	14°
AT120	ø 25 mm	20 cm to 3 m	12°
ATK120	ø 25 mm	20 cm to 3 m	10°
ARK120-THD	ø 40.6 mm 1.5" pipe thread	20 cm to 3 m	12°
AT200	ø 16 mm	12 cm to 2 m	12°
ATK200	ø 16 mm	12 cm to 2 m	10°
AT225	ø 13 mm	10 cm to 1.5 m	15°
AT300	ø 12 mm	5 cm to 50 cm	10°

PVDF housing for chemically aggressive environments

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WX Ultrasonic WeatherStation® Instruments for Land Applications

Delivering a Compact, Affordable Instrument
for Informed Decision-Making

Available Models: 110WX, 150WX, 200WX

Monitoring atmospheric conditions can be a critical function for road construction jobs. It's well known that certain materials must be deployed in specific temperature or humidity windows in order to achieve desired results. The WX Series allows users to make informed decisions based on site specific information, resulting in improved efficiency, reduced risks and overall cost savings. Various model options are available for both stationary, mobile and deployable applications.

The WX Series WeatherStation Instruments offer a truly best-in-class solution at a better price point compared to any other weather monitoring system on the market today!



Actual
Size

FEATURES

- Model 110WX – Measures apparent wind speed and angle, true wind speed and direction when aligned to true North, barometric pressure, air temperature, relative humidity, calculated dew point, heat index and wind chill temperature
- Models 150WX and 200WX – Includes all 110WX functionality plus internal compass and GPS (for theoretical wind speed and direction), GPS position, speed over ground, course over ground
- Model 200WX – Best-in-class dynamic stabilization via three-axis compass and three-axis rate gyro
- UV stabilized, compact housing with no moving parts

WeatherCaster™ SOFTWARE

Developer Assistance

- Enable/disable functionality
- Optimize communications bandwidth NMEA 0183 (RS232, RS422)
- Change sampling rate (output interval)

Field Installation Assistance

- Enable/disable functionality
- Sensor orientation
- Compass calibration
- Temperature offset
- Select specific device on a NMEA2000® network
- Alarms for wind speed and barometric pressure
- Altitude offset



Product Models to Satisfy Multiple Weather Needs



Now available on iTunes — OnSiteWX
The innovative App for real-time weather data!



110WX



150WX



200WX

	Apparent Wind Model		Apparent & Theoretical Wind Models	
	Recommended for Stationary Applications	Recommended for Moving Vehicle Applications	Recommended for Dynamic Moving Vehicle Applications	
Apparent wind speed and angle	✓	✓	✓	
Theoretical wind speed and direction		✓	✓	
Barometric Pressure	✓	✓	✓	
Ultrasonic wind readings up to 90 mph (78 knots, 40 m/s)	✓	✓	✓	
Air temperature plus calculated wind chill	✓	✓	✓	
10 Hz GPS (Position, COG, SOG)		✓	✓	
Two-axis solid state compass		✓		
Three-axis accelerometer for pitch and roll		✓		✓
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				✓
Best-in-class pitch and roll accuracy				✓
Optional field-serviceable relative humidity Calculated dew point Calculated heat index	✓	✓	✓	
Output options include: NMEA 0183 (RS422) and NMEA2000® (CAN Bus) NMEA 0183 (RS232) and NMEA2000® (CAN Bus)	✓	✓	✓	

About AIRMAR Technology Corporation

AIRMAR develops and manufactures transducers for a diverse range of applications, including air-ranging industrial transducers, underwater scientific and survey transducers, weather sensing instruments and our extensive line of fish-finding transducers.



Optional Factory Mutual Approval
Class I, Division 1, Groups A, B, C, & D

