

# AIRMAR

Your Strategic Partner for Offshore Sensing Technology



## Proven Solutions For:

- Site Prospecting
- Seafloor Mapping
- Sub-Bottom Profiling
- Offshore Weather Monitoring
- Closed Loop Control

**PROVEN.  
RELIABLE.  
INNOVATIVE.**

Game **CHANGING** TECHNOLOGIES.



*Sensing Technology*



# About AIRMAR

Airmar Technology Corporation is a world leader in the design and manufacture of sensing technology for marine and industrial applications. The Company's product line includes advanced ultrasonic transducers, flow sensors, WeatherStation® Instruments, and electronic compasses used for a wide variety of applications including fishing, navigation, meteorology, survey, level measurement, process control, and proximity sensing. Established in 1982, Airmar's headquarters are located in Milford, New Hampshire, with distribution offices in Lake City, South Carolina, and Saint Malo, France.

## Offshore Partnerships

Airmar specializes in OEM partnerships and has a proven track record of providing customized sensing technology solutions to customers around the globe. Airmar offers a full line of survey-echosounder and portable-survey transducers including models suitable for shallow water, harbor survey, deep water, ocean survey, and sub-bottom profiling. Our WeatherStation® Instruments combine measurements from an ultrasonic anemometer, compass, GPS, temperature sensor, barometric pressure sensor, and humidity sensor, all in a single compact unit without moving parts.

## Innovation

Airmar's team of scientists, multidisciplinary engineers, designers, and technicians lead the company in research and development. Outstanding personnel coupled with our cutting-edge manufacturing facility featuring acoustic test tanks and state-of-the-art testing equipment, allows us to develop and test new technologies quickly, accurately, and cost effectively.

## Quality

Airmar gives constant attention to producing the highest quality products. We begin with the best materials from qualified vendors. Then we closely monitor the manufacturing process using Lean Manufacturing practices, followed by rigorous final testing. Our commitment to quality is reflected in our ISO 9001 certification.

## Customer Satisfaction

Customer satisfaction and product quality are the responsibility of every Airmar employee. These are achieved through creative research, design integrity, consistent workmanship, adherence to specifications, process monitoring, and continuous improvement.

Visit the Company's web site at [www.airmar.com](http://www.airmar.com).



### Headquarters

#### Airmar Technology Corporation

35 Meadowbrook Dr.  
Milford, NH 03055 U.S.A.  
Tel: 603-673-9570

### Distributors

#### Airmar EMEA

9, Bis Rue des Grands Jardins,  
ZI Sud  
35400 Saint-Malo, France

#### Gemeco Marine Accessories

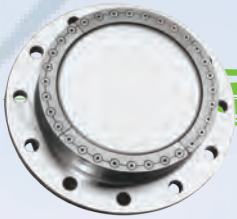
1141 South Ron McNair Blvd  
Lake City, SC 29560



## 300WXR (WeatherStation® Instrument)

**Applications:** Buoy, boat, turbine installations, and site assessment

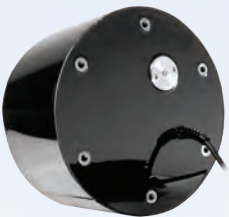
- True and apparent wind speed and direction
- Barometric pressure
- Air and wind chill temperature
- Internal WAAS / EGNOS GPS (10 Hz)
- Three-axis solid-state compass
- 1° static and 2° dynamic compass accuracy
- Three-axis accelerometer provides pitch and roll
- Three-axis rate gyro
- Dew point and heat index temperature
- Rain sensor provides accumulation, intensity, and duration
- Optional field-serviceable relative humidity sensor
- UV resistant plastic housing



## Broadband Transducers

**Applications:** Seafloor mapping and sub-bottom profiling

- Single-beam
- Multi-beam
- Sub-bottom profiling
- Side scan sonar
- Interferometry
- Parametric
- Hydrophone
- Customized transducer configurations

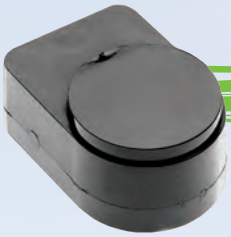




## PB200 (WeatherStation® Instrument)

**Applications:** Buoy, boat, turbine installations, and site assessment

- True and apparent wind speed and direction
- Barometric pressure
- Air and wind chill temperature
- Internal WAAS / EGNOS GPS
- Three-axis solid-state compass
- 1° static and 2° dynamic compass accuracy
- Three-axis accelerometer provides pitch and roll
- Yaw rate gyro
- UV resistant plastic housing



## M153 or SS510 (Smart™ Sensors)

**Applications:** Scour inspection systems and portable hydrographic survey

- Embedded transceiver
- Digital output via RS422
- Raw data output via RS485
- Depth & temperature
- 200 kHz operating frequency
- 9° beamwidth
- Up to 200 m (660') depth range
- Pier-mountable
- Fully encapsulated urethane housing (M153)
- Robust, threaded stainless steel stem (SS510)





## 150WX (WeatherStation® Instrument)

### Applications: Turbine and platform installations

- True and apparent wind speed and direction
- Barometric pressure
- Air and wind chill temperature
- Internal WAAS / EGNOS GPS
- Two-axis solid-state compass
- Three-axis accelerometer provides pitch and roll
- Dew point and heat index temperature
- Optional heater available Second Quarter (Q2) of 2012
- Optional field-serviceable relative humidity sensor
- UV resistant plastic housing



## AR41 (AIRDUCER® Ultrasonic Transducer)

### Applications: Level, flow, and wave height measurements

- Housing design will accommodate transceiver and signal processing electronics
- Complete assembly available with standard cable lengths
- 10 K $\Omega$  thermistors are optional for temperature compensation
- Rugged, IP68 rated housing

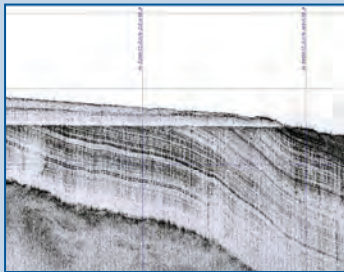
# Testimonials

## Knudsen Engineering LTD

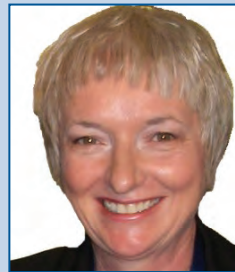
PINGER SBP, a new product offered by Knudsen Engineering provides the research and survey world with an innovative solution to the challenges of shallow water sub-bottom profiling. The Pinger features CHIRP transmission and a large-aperture receiver. When designing the new system, our goal was to create a product that provides higher directivity and enhanced resolution in a portable, much lighter weight package than what is currently available in the market. Airmar's unique low-frequency (10 kHz to 20 kHz) broadband, CHIRP-ready projector and PiezoFlex™ receive array are the enabling technologies for the system. In addition to the advantages of a wider bandwidth and excellent resolution, the Pinger is a portable solution at a modest cost. Having partnered with Airmar for over 15 years, we continue to work together on the design of new products and customized sensing technology solutions.



Pinger Transducer Assembly



Data Presentation



**Judith Knudsen**  
V.P. Operations / Marketing



## RigStat®

RigStat® customers depend on us for the monitoring of offshore oil and gas exploration vessel sensor information. It's no surprise that we rely on Airmar's PB200 WeatherStation® Instrument for accurate and instantaneous location, motion, and weather information. The PB200's internal, WAAS-enabled GPS engine and three-axis solid-state compass provide positional information as well as both apparent and true wind speed and direction—critical information in reporting precise weather conditions. RigStat's monitoring service displays sensor data, trend data and historical data on a global map, allowing a centralized view of essential information by authorized personnel. When storms approach drilling vessels and production platforms, RigStat's monitoring service equipped with Airmar WeatherStations offer continued vigilance and safety.



PB200  
WeatherStation® Instrument



**Russell Roy**  
President



[www.airmar.com](http://www.airmar.com)

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