

"some lead, others follow" !

Weather Station

Solid State Wind & Weather Sensor

The PB100 is a fully integrated weather array featuring state of the art combination of wind, temperature, barometer, relative humidity with position and attitude sensors. The small physical package can easily be mounted on a static location or a mobile platform such as a bouy platform. The LB100 is a version without position and attitude sensors designed specifically for static land based applications such as Port VTS information systems.



PB100 Weather Sensor

At last, a real low cost alternative to conventional cup/vane/propeller anemometers - The PB100 is a solid state instrument utilising Airmar's expertise as the world's leading sonic manufacturer, The PB100 is based on highly successful, proven ultrasonic technology. Ideal for applications that demand economic wind sensing, the PB100 instrument is suitable for land-based and marine environments.

A lightweight unit, the instrument is of a robust, high strength construction, designed to withstand installation and use with no fear of the damage commonly experienced with the more fragile cups, vanes or propellers. Without the need for expensive on-site calibration or maintenance and with a corrosion free exterior, PB100 is a true fit and forget unit.

SENSOR FEATURES

- **Wind Speed**
- **Wind Direction**
- **Barometer**
- **Air Temperature**
- **Relative Humidity**
- **GPS Position**
- **Pitch & Roll**
- **Magnetic Compass**



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www.tidegauge.com

www.echo-sounder.com

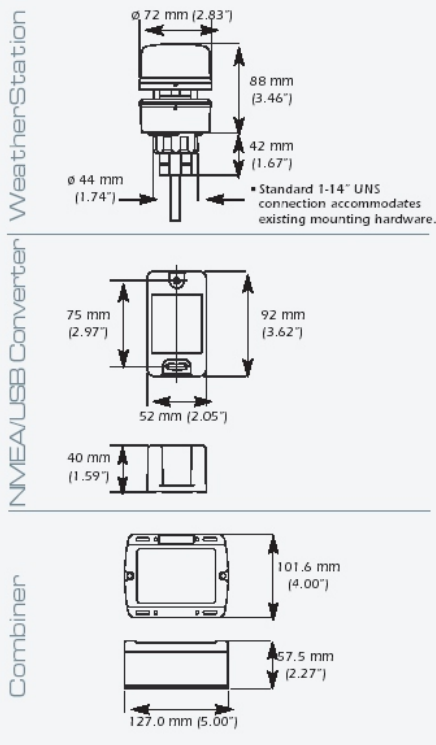
Wind Speed Range	0.5 to 99.5 knots (0.6 to 114.5 MPH)	Compass Sensing	±1° typically
Wind Speed Resolution	0.1 knot (0.1 MPH)	Barometric Pressure Range	850 mb to 1150 mb (25" to 34" Hg)
Wind Direction Resolution	1°	Barometric Pressure Accuracy	±1.5%
Wind Direction Sensitivity	±1.5°	Relative Humidity Range	10% to 95% RH
Temperature Range	-30°C to 50°C (-22°F to 122°F)	Relative Humidity Accuracy	±4% RH
Temperature Accuracy	±1.5°C (±2.7°F) @ 2 Knots (2.3 MPH) wind	Supply Voltage	10 VDC to 16 VDC
		Weight	285 grams (0.6 lb)
		Thread Size	1-14" UNS (Unified National Standard)

*Below 0°C (32°F), the accuracy of WeatherStation readings may be degraded.

SENSOR SPECIFICATIONS



Standalone PC version



The concept behind EDAS is to provide Environmental Data collection systems using distributed computer processing and saving the results in a standard database format thus making use of modern computer networking technology. The PB100 is supplied with a driver program to interface the environmental data to the EDAS software package. Alternatively the sensor can be used with the standard WeatherCaster display software supplied with the package which emulates ships panel displays (requires NMEA interface box).



COMPONENT DIMENSIONS

Ohmex is a company formed to manufacture and distribute products designed by L.M.Technical Services. This company established in 1982 was founded on technological innovation and design. The company prides itself on being the first to produce products in the field of instrumentation and software used within the Earth Science sectors. Achievements to date include DGM, the first digital ground modeling software to run a standard PC, SONARLITE, the first truly portable echo sounder, TIDALITE the first portable Tide Gauge, EDAS, Integrated tide and weather networked software for use by ports and harbours. WinSTRUMENTATION - The integration of Instrumentation, Wireless networks and modern portable computer equipment.



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