PB100

Ultrasonic WeatherStation™ Instrument

The Ultrasonic WeatherStation™ Instrument detects instantaneous changes in the weather. Our WeatherCaster™ Software allows you to have your own personal weatherman on-board the boat, 24 hours a day, 7 days a week!

Features:

- True wind speed and direction
- Apparent wind speed and direction
- Internal WAAS GPS
- Two-axis solid-state compass—no moving parts
- Pitch and roll
- Barometric pressure
- Relative humidity
- Air temperature
- Wind chill temperature
- Dew point temperature
- Heat index temperature
- NMEA 0183 output

Wind Speed Range:	0 to 80 knots (0 to 92 MPH)
Wind Speed Resolution:	0.1 knot (0.1 MPH)
Wind Speed Accuracy @ 0°C to -40°C (0°F to -40°F) no precipation:	2 knots RMS (2.3 MPH) or ±4%, whichever is greater
Wind Speed Accuracy in wet conditions:	5 knots RMS (5.7 MPH)
Wind Direction Range:	0° to 360°
Wind Direction Resolution:	0.1°
Wind Speed Accuracy @ 0°C to -40°C (0°F to -40°F) no precipation:	2° RMS
Wind Speed Accuracy in wet conditions:	5° RMS
Operating Temperature Range:	-25°C to 55°C (-13°F to 131°F)
Temperature Accuracy:	±1.5°C (±2.7°F) @ >4 knots (4.6 MPH) wind
Temperature Resolution:	0.1°C (0.1°F)
Compass Accuracy:	3° RMS static heading (no magnetic interference and level)
Barometric Pressure Range:	850 to 1150 mbar (25 to 34 inHg, 850 to 1150 hPa)
Barometric Pressure Accuracy:	±20 hPa (±0.59 inHg, ±20 mbar) when altitude correction is available
Relative Humidity Range:	10% to 95% RH
Relative Humidity Accuracy:	±4% Units RH
Supply Voltage:	10 VDC to 16 VDC
Weight:	285 grams (0.6 lb)
Power Consumption:	<100 mA in normal operation (up to 650 mA with heater)
Sensor Baud Rate:	4800 bps can be increased to 38,400 bps with a command
Thread:	1"-14 standard marine mount

*Below 0°C (32°F), the wind speed and direction may be less accurate.
**When wind speed is less than 4 knots (4.6 MPH), temperature readings will be less accurate.
***Wet conditions include moisture, rain, snow and/or sea spray on the blue plate.

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AIRMAR® TECHNOLOGY CORPORATION

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Applications:

- XXXX
- XXXX
- XXXX
- XXXX
- XXXX

Notes:

- Connect to the vessel's computer while at home
- Anticipate weather fronts before leaving the dock
- True wind data can be sent to the autopilot while underway
- On-board PC or chartplotter can display true wind data while docking

Options:

- Temperature sensor

Parts & Accessories:

Epoxy Kit: **33-156**

Replacement Base: **33-268-01**

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