



### OVERVIEW

Pharos Marine Automatic Power's WX PRO Integrated Single Station Weather Reporting system offers a rugged, low-cost, low power, easy to install weather reporting solution for buoys and platforms.

The unit features rugged, multi-parameter weather sensors with state-of-the-art technology:

- Sonic anemometer for wind speed measurement
- Multi-element sensor for highly accurate and stable temperature readings
- Fast-response, capacitive relative humidity sensor
- State-of-the-art barometric pressure sensor
- Internal fluxgate compass for automatic alignment of wind direction

The WX Pro Weather Station connects to a Datalogger/MicroServer that can be connected directly to the AtonisPro AIS Aton Transponder to report weather data via Message 8 in IMO format. The user can configure the reporting intervals for Message 8 and ATONIS controls the on/off times of the datalogger/microserver to keep power consumption at the lowest possible level.

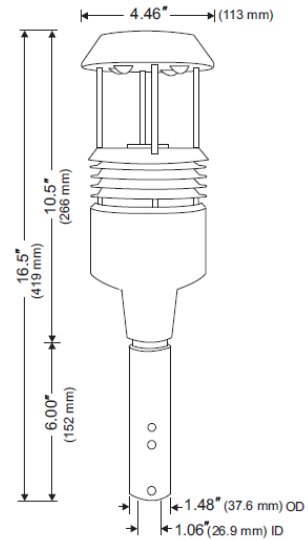
Water level sensors can be connected to the Datalogger/Microserver to report tidal data in IMO Message 8 format.

### KEY FEATURES

- Integrated sonic wind sensor
- Automatic self-alignment internal fluxgate compass
- Rugged metal construction for use in demanding applications
- No mechanical components means virtually no maintenance
- Low power consumption –ideal for battery or solar-powered installations
- AIS Ready to Report Message 8 Met /Hydro data

## PHYSICAL SPECIFICATIONS

Dimensions	419 mm H, 113 mm Dia. (16.5" x 4.46")
Weight	0.91 kg (2.0 lbs.)
Input Voltage	0-38 VDC (12 Volts Nominal)
Power Consumption	50 mA Active @ 12 V, 0 mA Sleep Mode
Quiescent Current	0.0 mA
Temperature	-50° to +50°C (-58° to +122°F)
Accuracy	±0.2°C
Resolution	0.1°C
Relative Humidity	0 to 100%
Accuracy	± 3%
Resolution	1%
Wind Speed	0 to 50m/sec (0 to 112 mph)
Accuracy	±0.5 m/s or 5% of reading
Resolution	1 m/s
Wind Direction	0 to 360°
Accuracy	± 5°@ wind speed > 2.2 m/s
Resolution	1.0°
Compass	0 to 360°
Accuracy	±2°
Resolution	1°
Barometric Pressure	600 to 1100 hPa
Accuracy	±0.35 hPa
Resolution	0.1 hPa
Materials	Anodized Aluminum and Stainless Steel
Mounting	37.6 mm (1.48 in.) O.D.; 26.9 mm (1.06 in.) I.D. Pole



## ENVIRONMENTAL

Temperature	-50° to +70°C (-58° to +158°F)
Humidity	0 to 100%

*\*All values are subject to change without notice.*

**Pharos Marine Automatic Power, Inc.**  
Houston, TX - USA  
sales@automaticpower.com  
Phone: +1-713-228-5208

**Pharos Marine Automatic Power**  
Gray, LA - USA  
rieblanc@automaticpower.com  
Phone: +1-985-223-8700

**Pharos Marine Automatic Power, Ltd.**  
London, UK  
sales@pharosmarine.com  
Phone: +44-20-8538

**AB Pharos Marine Pte.**  
Singapore  
sales@pharos-api.com  
Phone: +65-6747-9325