

Key Differentiators

07/16/17

Feature	Nautic Alert X2	Competitor (A)	Competitor (B)
Onboard Capacitive Touch Screen Graphical Interface	✓		
Onboard Analytic Engine for Early Event Detection	✓		
Onboard Sensor Data Processing and Computation	✓		
Onboard Data and Alarm Display and Audio	✓		
Onboard Network for Wireless Component Communication	✓		
Onboard Text Messaging	✓		
Onboard System Event Logging	✓		
Onboard Integrated 95dB siren	✓		
Onboard Bilge Pump Manual Override Controls Interface	✓		
2-Way Data Real-Time On-Demand Communication to Device	✓		
1-Way Data Buffered to Land-Based Server		✓	✓
Remote On Demand Real time Information Requests	✓		
Text and Email Notifications	✓	✓	✓
3G Cellular Communications		✓	✓
4G LTE Superior Long Range Shoot Through Hull Cellular Antenna	✓		
Embedded Global Iridium Satellite Shoot-Through Hull Antenna	✓		
WAAS GPS (used onboard commercial aircrafts)	✓		
Measures Bilge Compartment Water Level with 1/10 Accuracy	✓		
Measures Temperature for Bilge Compartment	✓		
Bilge Water Level Measurements and Analysis	✓		
Bilge High Water Level Detection Less Than 1 Inch	✓		
Bilge High Water Level Float Switch Alarm (requires 4 to 10 inches of water to activate)		✓	✓
Bilge Pump Failure Detection	✓		
Bilge Pump Auto Swapping for Recovery	✓		
Bilge Pump Cycle Counter	✓		
Bilge Pump Cycle and Runtime Analysis	✓		

Feature	Nautic Alert X2	Competitor (A)	Competitor (B)
Bilge Pump Controller Supporting Up to 16A / 300W Pump	✓		
Bilge Pump Controller Managing Up to 20 Pumps	✓		
AC Shore Power Loss	✓	✓	✓
Onboard or Remote Security Arming/ Disarming	✓		
Wired Microwave Based Outdoor/Indoor Security Sensors	✓		
Wireless Microwave Based Outdoor/Indoor Security Sensors	✓		
Passive Infrared Indoor Security Sensors and contacts	✓	✓	✓
Active DC Battery Voltage Monitoring and Trending	✓	✓	
DC Multi-Battery Bank Monitoring and Trending	✓		
Geofence		✓	✓
Geofence High Precision with 50' Detection And Auto Adjusting	✓		
Anchor Alarm		✓	✓
Anchor Alarm, High Precision With Auto Adjusting	✓		
Worldwide Emergency SOS With 2-Way Messaging	✓		
Personal Emergency/Man Overboard (MOB) SOS	✓		
Web Portal	✓	✓	✓
Vessel Locator With Real-Time On-Demand Vessel Location	✓		
Vessel Locator Based on Previous Reported Location		✓	
Vessel Tracking With Real-Time Track Builder	✓		
Vessel Tracking With Buffered Track Data			✓
Standard 2-Year Warranty	✓		
Standard 1-Year Warranty			✓

Additional Key Differentiator Insight

Bilge Management

Things you do get with a high water float switch solution, which is what our competition all use.

- Adjustable alert level

Things you don't get with a high water float switch solution.

- Detects leaks as soon as they start by recognizing increased pump activity
- Tests pump(s) once a week even with no water to make sure they're working correctly and drawing power
- Let's owner know down to 1/10 of an inch how much water is present, anytime
- Detects failure of pump and can even auto-switch to a backup (with our 2-pump Nevata controller), otherwise notifies of pump failure
- Detects continuous runtime of pump if situation worsens past early leak detection
- Gets everything, including electrical cables, out of the water and sludge with exception of pump
- Pump watchdog feature ensures pump doesn't run continuously with less than 1.6 inches of water present
- Anti-slosh logic ensures pump isn't continuously activated for water sloshing in bilge
- Adjustable pump-turn on level
- Adjustable critical alert level that can be used to notify a harbor master or 3rd party for a pump-out needed. This is differentiated from a high-water alert.

Communications

- Integrated Iridium connectivity that works globally, featuring shoot-through hull technology that enables quick installation without drilling holes. You will get better performance and lower latency if you mount the antenna in a high location with no obstructions, but messages will get through either way.
- Only 4G LTE cellular option that I know of, but that probably won't do you much good in Alaska and traveling in between, so the Iridium connection is recommended.
- 2-way On-Demand communications with the device gives you real-time access to data from the device itself, not a server where data is sent from the device periodically.

Energy

- Trending of previous 6 hours of DC data provides insight into early detection of DC related issues—bad charger, bad battery cell, etc. This is sort of like our bilge management approach versus a high-level float switch.

- Adjustable low-voltage thresholds
- Adjustable filter prevents alert notifications every time a bilge pump or other source turns on and puts a load on the batteries. This can be very problematic with other systems as mentioned in our product review, which was written by Ben Ellison who also tests the other products:
http://www.panbo.com/archives/2017/02/nautic_alert_excellence_in_monitoring_and_control.html
- AC shore power detection with XPulse
- Multi-bank DC monitoring/trending with XPulse

WAAS GPS

- Highly precise anchor alarm/geofence utilizing next-gen GPS technology enables the most accurate and precise detection of unexpected movement down to 50 feet, and greatly reduces false alerts by automatically adjusting to degrading signal conditions and positional accuracy.

Vessel Location/ Vessel Tracking

- On-Demand location access gives you real-time position without waiting for an update
- Vessel tracking shows current and previous tracks without needing to wait to transmit buffered data, enabling friends and family to always know your location when traveling, if you want them to.

Safety

- Global GEOS emergency response monitoring built-in, which includes 2-way communications with GEOS in the event of an emergency.
- One-touch personal emergency transmitter can be used to trigger a response or notify alert recipients of an emergency, onboard or near your boat.
- Two-way text messaging to any mobile number from anywhere

Security

- Only microwave-based intrusion detection system designed to be used outside and inside the boat using a 3-layer security defense.
- Provides early detection of intruders using next-gen security technology that overcomes traditional marine factors making PIR technology unreliable or useless, which includes high wind drafts, vibration, swaying of lines, people on nearby docks/boats, thermal energy through windows, etc...