BlueTraker

by

SSAS

Ship Security Alert System

Security at sea with BlueTraker SSAS

by

eIIIa
WIRELESS DATA SOLUTIONS

BlueTraker SSAS

Safeguard your Ship and Protect the Lives of the Crew

Fleet operators and seamen are increasingly growing worried about the threat of piracy and other incidents upon the high seas. Not only is there a risk to the lives of the crew but it also carries huge financial risks for the fleet operators as well.

We at EMA understand what seamen face when on the high seas and acknowledge the concerns that the fleet manager has while their vessel is transporting valuable cargo or passengers. That is why we designed and constructed a product called BlueTraker® SSAS which alleviates these worries.

BlueTraker SSAS Features:

• Two security buttons to sound the alarm in case of an emergency situation.
• Pole to pole coverage through use of the Iridium Satellite network.
• Ability to withstand the harsh maritime conditions.
• Arctic version operational at temperatures down to -50°C.

Vessel Alert Initiated

In the event of a vessel sounding an alert, a number of actions are automatically initiated:

• A pre-programmed alert message is immediately sent to the flag operator via SMS/email with the pertinent information (Vessel name/Latitude and Longitude coordinates etc.) to enable rescue efforts to be initiated.
• Tracking interval automatically changes to once every thirty minutes.
• On Fleet View Online the white background place holder displaying the vessel name changes to red
• A fixed text message is then sent to the ship operator using an emergency communication channel acknowledging the received alert – subject to availability.

The system can be connected with dedicated professional SSAS management and monitoring services to ensure responsive 'intelligent' monitoring takes place.

BlueTraker® Smart Engineering Ensures Reliability in Extreme Arctic Conditions

• BlueTraker ssas has a unique double-shell housing with a ventilated layer between the two shells which gives it added protection against low temperatures and winds.
• To survive severe Arctic conditions a layer of heating elements throughout the electronic circuitry which keeps the terminal operational down to - 50°C.
• Smart Firmware provides safe thermostatic control enabling 'Cold start Power-up' at -50°C.
• Mounting accessories made from stainless steel (EN1.4571) capable of withstanding of mechanical stress and vibrations at -50°C.

Tracking and Alert Messaging

In addition to SOLAS security alert requirements, the BlueTraker SSAS device is capable of position data report transmissions for day-to-day tracking purposes. The ship's position can be monitored on the service provider's web tracking site.

Pole to Pole coverage

Shorter routes are opening up between the continent (North East /North West passages) which means the only choice is the BlueTraker ssas Artic transponder using Iridium Satellite technology. To be able to navigate through the Canadian or Russian Arctic (A4 Sea area) means having equipment that has been specifically engineered to withstand the harsh conditions that are only experienced in this inhospitable environment.

Regulatory Authority Compliance

On board security alert systems are governed by various internationally agreed rules and regulations as promulgated by the IMO International Maritime Organization), as recommended by its' associated sub - committees, principally the Maritime Safety Committee (MSC).

All in One Solution - What do You Get?

• Peace of mind (On board security alert system)
• Confidence (Knowing where vessel is located)
• Efficiency (With hybrid communication system)
• SOLAS conformance
• Durability (Tested in extreme weather conditions)
• And more...

BlueTraker SSAS Technical Specifications

External power supply	24V DC, 1A / Arctic version 9V DC to 36V DC, 0.5A max
Power Supply Protection	Power line disconnects above 36V Withstands continuous connection up to 150V DC source Internal self recovering poly fuse
Operating Temperature	-40°C[1] to +85°C[2] (without back-up battery or with external back up battery) -40°C to +60°C (with embedded back-up battery)
Arctic version	-50°C to +85°C[3] (without back-up battery or with external back up battery) -50°C to +60°C (with embedded back-up battery)
Storage	Temperature Range: -40°C to +85°C
Waterproof and dust protection	IP68 protection class (depth 6 m, duration 30 mins.)
Integrated Antennas	GPS, Iridium
Iridium transceiver	Frequency range 1616 MHz to 1626.5 MHz; Maximum output power +32 dBm (1.6 W)
GPS receiver	33 channels, 1 sec. update rate, 1575.42 MHz (L1 band) Accuracy: Position 5 m CEP, Velocity 0.1 m/sec Sensitivity: - 167 dBm tracking
Installation	External, mast, vertical rail, horizontal rail, flat vertical surface
Mounting accessories	UniMount mouting bracket - included
Cable	Up to 100 m included Free Alert Button cables up to 700 m / tested
Housing	Double-shell, white colour outer shell, resistant to UV sun radiation
Mechanical	Dimensions: 198 x 67 x 198 mm (width x height x length) Weight: 1.19 kg; 2 kg with UniMount
Shock resistance	Multiple drop from 1.2 m height to every side of the device

[1] *Must not be powered up at temperatures lower than -25°C, except for BlueTraker SSAS Arctic version.*
[2] *According To MIL-STD-810G*
[3] *24V DC Power Supply is required*

Standards, Certificates and Type Approvals

- Iridium Compliance Certificate
- Germanischer Lloyd Type Approval
- Russian Maritime Register of Shipping Type Approval
- US Coast Guard Certificate
- DNV GL Type Approval

- IEC60945 - Marine environment standards compliance
- IP68 & IP69K - Water and dust grade protection grade standards
- TUV Austria - Quality management system certified

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