



# OCEAN ALERT

**MK III**

ship security alert system

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## the system

Ocean Alert meets or exceeds all mandatory regulations, guidance notes and performance standards for Ship Security Alert Systems.

The new model is based on the latest proven technology of the SAT-201, replacing the SAT-101 unit which formed the basis of the previous Ocean Alert solution. The SAT-201 is the smallest IsatM2M transceiver on the market, making the unit both discreet and compact.

Ocean Alert's global coverage provides fully automatic roaming across all the world's ocean regions. Its low power consumption and proven network reliability make Ocean

Alert a cost-effective, low-maintenance, end-to-end solution to meet ship security requirements. In addition it provides useful vessel monitoring and long-range identification capability for fleet operators.

## features and capabilities

- Meets or exceeds all mandatory requirements of SOLAS Regulation XI-2/6
- Most cost effective SSAS solution with most reliable message delivery technology
- Bundled end-to-end solutions including reporting service, airtime, hardware and alert notification, no monthly airtime fees
- SAT-201 satellite terminal technology offers true global coverage with fully automatic roaming across all ocean regions
- Micro technology allows discreet and flexible installation
- Precise location and status delivered to desktop via the web, email and SMS
- Integral internal back up battery
- Upgradeable to meet Long Range Identification and Tracking (LRIT) requirements
- Test mode and 'heartbeat' operation to ensure constant readiness
- Inmarsat Type Approved
- Type approved to IEC 60945

"OCEAN ALERT meets all requirements of SOLAS Regulation XI-2/6"



# secure reliable technology

## **global coverage**

Satamatics' global service provides coverage throughout the world, utilising the Inmarsat system of geostationary satellites and the Inmarsat D+ and IsatM2M protocol, ensuring a cost effective, high quality service with rapid message delivery.

## **automatic roaming**

Unlike other systems, Ocean Alert will automatically switch between geostationary satellites without any intervention, allowing complete, seamless and uninterrupted global roaming across all ocean regions of the world.

## **low elevation angle**

Sealed and certified to IP66 for operation above decks in heavy seas, Ocean Alert's compact and concealable omni-directional antenna has a 'look angle' of elevation less than five degrees above the horizon, ensuring unrivalled levels of operation.

## **tracking**

Utilising the compact and easily concealable Satamatics SAT-201 advanced satellite terminal with integrated 12-channel GPS receiver and D+/IsatM2M transceiver, Ocean Alert continuously monitors the ship's location, together with its external power supply and alert activation points, automatically transmitting the ship's precise location back to the fleet operating company at customer defined intervals.

## **web interface**

The precise location and status of every ship in a fleet can be tracked on any desktop or laptop computer connected to the Internet. The Ocean Alert website is accessed using a standard web browser. Security is ensured with User Name and Password login.

Using the Ocean Alert web interface, fleet managers can also interrogate the satellite terminal on-board ship for a current position report, or remotely change the tracking frequency.

The user-friendly web interface allows fleet managers to set up nominated contact names, mobile phone numbers and e-mail addresses for automatic SMS and e-mail alert notifications in the event of a number of conditions arising including emergency alert activation, power interruptions, etc.

“the most cost effective SSAS solution  
using the most reliable technology”



# true global service

## alert notification

In an emergency where the security of the ship is compromised, the triggering of any of the covert activation points will immediately raise an alert, automatically sending SMS text and e-mail alert messages to the fleet operator's chosen points of contact.

During such ongoing alert conditions, Ocean Alert will increase its automatic position reports to every 30 minutes, until the emergency is resolved.

Ongoing alert messages will continue to allow the ship's precise location to be tracked, identifying which alert activation point has been triggered and reporting any tampering with the external power supply.

## tamper proof

In the event of the external power supply interruption including malicious disconnection, Ocean Alert's integrated back-up battery will take over. The terminal will immediately broadcast a power supply interruption warning message and switch into 'power-saving' mode, continuing to monitor the covert activation points for activation or further tampering.

## test and dry dock

Ocean Alert provides a key-switch operated test mode in order that a competent authority on board ship may test the entire end-to-end system - from activation points through to the web interface, SMS and e-mail messages - without inadvertently generating a false alarm to the authorities.

In addition, the system can be disabled from the key-switch, which will disable transmission of tracking and alert messages.

Accidental transmission of alert messages on re-activation of the system after maintenance are avoided by first switching into test mode.

**OCEAN ALERT**

**MK III**

the complete SSAS solution



“micro technology allows discreet and flexible installation”

## system components

### Ocean Alert control box

- Compact, easily concealable, anonymous, sealed grey metal box
- Houses GEM-100 module and battery pack
- 3-position key switch (off, test, on)
- 2 activation point connectors
- Data control connector (to modem)
- External power supply connector
- Serial Port connector for optional Long Range Identification Tracking (LRIT) data terminal

### Satamatics SAT-201 intelligent satellite terminal

- Integrated 12-channel GPS receiver
- L-Band D+/IsatM2M transceiver
- Programmable processor
- Inmarsat type approved
- Omni-directional, low elevation angle
- IEC 60945 Certification
- Sealed IP66
- 112mm diameter x 45.75mm high
- Antenna mounting plate included

### Two alert activation points

- Double-action to prevent inadvertent operation
- Additional activation points optional

### Data control cable from control unit to SAT-201

- Available In 5 metre and 20 metre lengths (cut to size)

### Two cables connecting control unit to activation point (optional)

- Maritime cable
- Double shielded
- Flame retardant to IEC60332-3A, halogen free

### Future proofed for Long Range Identification Tracking

- Additional serial connector port for optional LRIT data terminal
- Intelligent remotely re-programmable terminal



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