



SSAS ALERT ADVANCED

## DSAS Mk2 Hardware Specification

DSAS Mk2 is a fully compliant, premium product designed for the user who requires a comprehensive solution for effectively managing security incidents. The unit is self-contained and consists of a compact, integrated Inmarsat/GPS transceiver, power management unit, back-up batteries and two alert activation points. It is constructed using a tough polycarbonate enclosure which is, in turn, protected by a stainless steel casing. Installation is straightforward and, with the Pole Star SSAS Management System, security alert management is easy.

With no external antenna, the unit does not resemble typical Satcom equipment and is therefore likely to escape hijacker/terrorist attention. In the event that the DSAS Mk2 power cable is cut or the ship's main power is down, the unit will remain functional for several days on back up batteries.

### Approvals

DSAS Mk2 is IEC 60945 type approved and, with respect to EMC testing, compliant with the revised 2 GHz frequency range (from 1GHz). It is also IACS certified by the following bodies, with all tests meeting or exceeding the requirements of the guidelines laid out in IACS Unified Requirement E10 and the relevant sections of IEC 60945:

- **ABS** - American Bureau of Shipping  
No. 12-LD859094-PDA
- **BSH** - Bundesamt Für Seeschifffahrt  
und Hydrographie  
Nr. BSH - 47151/20530/2012

- **BV** - Bureau Veritas  
Pending
- **CCS** - China Classification Society  
No. LD55347072
- **DNV** - Det Norsk Veritas  
Pending
- **GL** - Germanischer Lloyd  
No. 37 690 12 HH
- **KR** - Korean Register of Shipping  
Pending
- **LR** - Lloyds Register of Shipping  
No. 12/00028
- **NKK** - Nippon Kaiji Kyokai  
No. 12A012
- **PRS** - Polski Rejestr Statków  
No. TE/1925/883040/12

Furthermore, DSAS Mk2 has been stringently evaluated by major Administrations and accepted as a fully compliant system.

## DSAS Mk2 TECHNICAL SPECIFICATION

PHYSICAL	
Overall dimensions	415mm x 190mm x 232mm
Weight	19kg
Hardware	Rugged polycarbonate case with Gr.316 stainless steel cover
Alert buttons	2 x Panel Mount, normally closed

ENVIRONMENTAL	
Operating temperature range	-40° to +85° C
Storage temperature range	-40° to +85° C
Vibration	SAE J1455 (Sec 4.9, 4.2) MIL-STD-810G (Sec 514.6)
Shock (survival)	MIL-STD-810G (Sec 516.6)

ELECTRICAL	
Input voltage	24VDC
Power consumption	Receive with GPS: 60mA Transmit: 0.75 A
Batteries	18 Ah sealed lead acid battery pack
Battery life	5-7 days

SATELLITE	
Coverage	Global
Frequency range	Rx:1525.0 to 1559.0 MHz Tx:1626.5 to 1660.5 MHz
EIRP	5 dBW max
Elevation angle range	-15 to +90 degrees

GPS	
Frequency	1575.4 MHz
Channels	16 parallel

CERTIFICATIONS / COMPLIANCE	
Satellite	Inmarsat IsatData Pro Type Approved
Regulatory	FCC; RoHS; CE Mark (R&TTE); IEC/EN 60945