



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
No. 27931/A0 BV
- **CCS** - China Classification Society
No. LD55347072
- **DNV** - Det Norsk Veritas
No. A-13105
- **GL** - Germanischer Lloyd
No. 37 690 12 HH
- **KR** - Korean Register of Shipping
No. LDN16492-AC003
- **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 |