

# StarWatch security systems

## Satellite Docking Station

The Satellite Docking Station (SDS) is a secure, wall mountable unit which houses an electronic backplane assembly accommodating up to 6 StarWatch modules, a mains power supply and standby batteries. A choice of 3-way and 6-way backplane SDS variants is available with both options being supplied with a built-in mains transformer and mounting tray for two sealed lead acid batteries.

The SDS enclosure is an ABS/polycarbonate moulding with a hinged, removable lid secured using tamper resistant screws. Cable entry is normally made via compression glands, their size, number and location being determined at the time of installation.

The SDS Backplane is designed to minimise installation and wiring time and is equipped with Krone terminals for all field wiring, including power distribution and serial communications. Dedicated Krone terminals are conveniently located alongside each module slot on the backplane facilitating easy connection to access control equipment and any locally monitored equipment. Since backplane slots are not dedicated, any module\* can be fitted into any slot with connection assignments for the Krone terminals therefore being module dependent. Mains power connection to the unit is made via a screw terminal assembly with integral fuse. Battery charger leads are also provided.

Low voltage power supply facilities are comprehensive with a total of three slots being provided on the 6-way backplane, enabling either a single PSU or dual PSU arrangement. In a single PSU arrangement or for a 3-way backplane, one PSU supplies all module slots and any associated access control equipment and locking hardware. When equipped with dual PSUs, each unit provides for the requirements of three module slots, thus doubling the power available for external equipment.

For installations that require fibre optic communications, provision is made within the SDS for the fitting of up to six fibre optic interface modules (12157), enabling connection to a number of additional SDS units and / or a PC StarWatch system.



- SDS PROVIDES A SECURE AND CONVENIENT MEANS OF INSTALLATION FOR STARWATCH EQUIPMENT
- PLUG-IN MODULES PROVIDE FOR RAPID SYSTEM EXPANSION WITH MINIMAL DISRUPTION
- MODULARITY ENABLES A MIXTURE OF ACCESS READER TECHNOLOGIES TO BE SUPPORTED
- SYSTEM ARCHITECTURE SUPPORTS INSTALLATIONS WITH MULTIPLE SDS UNITS
- POWER SUPPLY DESIGN PROVIDES HIGH CAPACITY AND MAXIMUM FLEXIBILITY WITH LINEAR SUPPLY FOR PROXIMITY READERS

### Technical Specification

#### Remsdaq Part Numbers

ES21001	SDS assembly with 3-way backplane and 220/240V transformer**
ES21000	SDS assembly with 6-way backplane and 220/240V transformer**
12165	SDS PSU Module
12157	Fibre Optic Interface Module

### Power Requirements

220/240V\*\* AC @ 600mA  
(maximum, and when equipped with 2 SDS PSUs)

### Power Delivery Capability

Each SDS PSU Module provides up to 4A @ 13.8V DC (switched mode). The PSU also incorporates a facility to supply certain types of card reader and other external equipment using the output of an on-board linear supply. Up to 1A @ 12V DC may be drawn from this linear output but never more than 4A in total (including battery-charging current) may be drawn from a single PSU Module. By the addition of a second PSU Module, the power delivery capability of an SDS is effectively doubled.

### Battery Support System

The SDS provides space and charging facilities for one or two 12V lead acid standby batteries. The second battery is only fitted when two SDS PSU Modules are fitted.

### Environmental Specification

Operating Temperature Range: 0°C to +70°C  
Storage Temperature Range: -20°C to +70°C  
Relative Humidity: Up to 95% (non-condensing) at +40°C.

### Electromagnetic Compatibility

The SDS and its sub-assemblies meet the requirements of EN55022: 1998, EN50082-1: 1998 and Low Voltage Directive 93/68/EEC.

### Enclosure Construction

3mm ABS/Polycarbonate moulding complete with hinged, removable lid and sealing gasket. Lid is secured using 3 tamper resistant bolts and captive nuts.

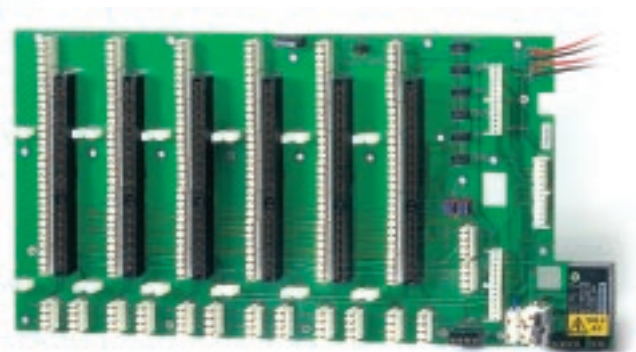
IP Rating of Enclosure: IP55

### Enclosure Dimensions

560mm x 354mm x 131 mm. A mounting template is available

\* A StarGate II Network Controller may only be fitted in SDS Slot 1

\*\* 110/120V versions are also available



6-WAY BACK PLANE ASSEMBLY



SDS PSU MODULE



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