



Model Number: 23177-S5

RF Engineering
and Custom Build

2 x 2 DC-6GHz Switch

With Local & Remote Control (via external alarm contacts)

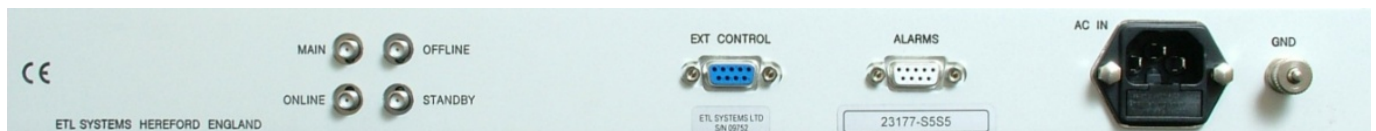


Front View of Model 23177-S5

This 2x2 switch operates over the DC to 6GHz frequency range. It is designed to be controlled from the external alarm contacts of devices such as modulators. The unit can be controlled locally via front panel push buttons and remotely via an external alarm contact on the rear panel.

The shelf can be operated in manual or auto mode – selected by a push button on the front panel. A second push button on the front panel allows manual switching between the Main and Standby feeds in manual mode.

The three groups of LEDs show the shelf status. The AUTO and MANUAL LEDs show whether the external contacts (AUTO) are used or the right hand push button (MANUAL) is used to select switch status. The MAIN ONLINE and STANDBY ONLINE LEDs show which path is selected in both automatic and manual modes. The three LEDs on the right show power available (green LED) or individual failure of either of the dual redundant power supplies.



Rear View of Model 23177-S5

This particular unit has 50 ohm SMA connectors, but a range of connector types and impedances are available (model numbers will vary).





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Technical specifications and operating parameters

| RF Parameters | | |
|-----------------|--|---|
| Capacity | 2x2 | |
| Frequency Range | DC-6 GHz | |
| Insertion Loss | DC-1GHz | <0.10 dB |
| | 1-2GHz | <0.15 dB |
| | 2-4GHz | <0.20 dB |
| | 4-6GHz | <0.30 dB |
| Return Loss | DC-1GHz | >26 dB |
| | 1-2GHz | >23 dB |
| | 2-4GHz | >20 dB |
| | 4-6GHz | >17 dB |
| Isolation | DC-1GHz | >80 dB |
| | 1-2GHz | >80 dB |
| | 2-4GHz | >80 dB |
| | 4-6GHz | >70 dB |
| Switch Type | Coaxial relay transfer switch (failsafe) | 1,000,000 cycle minimum life; mounted on rear panel |

| Environmental | |
|-----------------------|--------------------|
| Operating temperature | 0 to 45°C |
| Location | Indoor use only |
| Storage temperature | -20°C to +75°C |
| Humidity | 85% non-condensing |

| Physical | |
|------------|---------------------------------|
| Connectors | SMA |
| Impedance | 50Ω |
| Dimensions | 1U high x 350mm deep x 19" wide |
| Weight | 8 kg |
| Colour | White 00-E-55 semi-gloss |

| System Control | | |
|----------------|---|---|
| Local Control | Via front panel push buttons | Auto/Manual mode; Main/Standby path |
| Remote Control | Via rear panel external alarm contacts | |
| Feeds | Main & Standby | In OK condition Main is connected to "On Line" & Standby to "Off Line" |
| Operations | Manual & Auto | In manual mode the unit is switched via push buttons on the front panel. In auto mode it is switched via external alarm contacts. Dry change-over alarm contacts must be provided by the modems |
| Display | Front panel LED's for PSU status and operational mode | |

| Power | |
|--------------|-------------------|
| AC Power | 85-260Vac 50/60Hz |
| LNB Power | None |
| PSU | Dual redundant |
| Hot-swap PSU | No |

| Key Features |
|---------------------------------|
| DC-6 GHz |
| Local & Remote Control |
| Dual redundant power supplies |
| Manual & Auto Operational Modes |

ETL SYSTEMS LIMITED
Coldwell Radio Station
Madley
Hereford
England HR2 9NE

TELEPHONE
+44 (0)1981 259020

EMAIL
info@etlsystems.com

FACSIMILE
+44 (0)1981 259021

WEB
www.etlsystems.com

