

Networked Switch Controller (cont.)

| Specification | |
|--------------------------|---|
| Physical: | 19" rack, 1U high, 260mm deep (excluding connectors). |
| Power: | 90-254V a.c., 48-62Hz, 100-120VA max, dependent on configuration and application. Options for single and redundant power feed (dual power supplies) via IEC mains inlets. |
| Switching: | Support for between 1 and 4 mechanical switches: Option 2 - External coaxial switch, 24V coils, common positive. Option 3 - Internal latching coaxial transfer switch, 50Ω, to 18GHz. Option 5 - Internal latching coaxial transfer switch, 50Ω, to 200MHz Option 7 - Internal latching coaxial transfer switch, 75Ω, to 200MHz |
| Other Interfaces: | The DDA249 has a number of internal expansion ports which can be used to provide various digital and analog interfaces. |
| Chain Alarms: | Two 9-pin D-socket; three alarm inputs per chain accept volt-free contact or NPN open collector. Function dependent on software. |
| Host Serial: | (Optional) 9-pin D-socket; RS-232 and 4-wire RS-422/RS-485, selected by DIP switch. Supports "Printable ASCII" and "STX/ETX" protocols. |
| Summary Alarm: | (Optional) 9-pin D-plug; volt-free relay contact signals alarm on any detected fault. |
| Configuration: | Via Web browser or Telnet |
| Control: | General purpose interface using Web Browser or Telnet I/O monitoring and control via Modbus/TCP |

Single Remote Waveguide Switch Controller

- Remotely control a single Waveguide Switch
- DIN-Rail mount
- 24-28V d.c. Power Supply
- RS-422/485 or RS-232 Serial Port
- Optional Summary alarm output

The DDA235/DDA251 may be used to remotely control waveguide switches over a serial link, eliminating the problems of voltage drop associated with long cable runs. The unit is in a DIN-Rail mount format, reflecting the need for such units to be mounted in equipment cabinets adjacent to the waveguide network rather than being rack mounted.

The DDA235/DDA251 is powered from 24-28V d.c. to give maximum flexibility. On the DDA235, a summary alarm output reports both power supply and waveguide switch faults.



Single Remote Waveguide Switch Controller (cont.)

The waveguide switch interface can be used with virtually any industry-standard switch having at least one set of tellbacks. Switch lock status inputs are also available.

For monitoring and control the units support two industry-standard serial protocols, and the command set is compatible with the DDA70 and other waveguide switch controllers. On the DDA235 the address is set via DIP switches, while for the DDA251 it is set in software.

The units support 4-wire RS-422/485 serial connections, which allow connection of multiple units onto a single cable.

| Specification | |
|-------------------------------------|---|
| Physical: | DIN Rail Mount ("Top Hat") type DDA235 - 110 (H) x 135 (D) x 54 (W) mm excluding connectors, clip. DDA251 - 70 (H) x 90 (D) x 30 (W) mm excluding connectors, clip. |
| Power: | 24-28V d.c. <100mA quiescent. Up to 3A peak when switching, dependent on waveguide switch being controlled. |
| Host Serial: | 4-wire RS-422/RS-485, fixed 9600,7,e,1. Supports "Printable ASCII" and "STX/ETX" protocols. |
| Connectors: | Power - Binder 2-pole 680 series (DDA235) Serial - 9-pin D-socket (DDA235) Summary Alarm - 9-pin D-plug (DDA235) Power and Serial - Mixed contact-D plug (DDA251) Waveguide Switch - 9-pin D-socket |
| Control: | Any industry standard waveguide switch 24-28V d.c. common negative coils 3A max. One set tellback contacts used. Inputs for normally open and normally closed lock inputs. |
| Summary Alarm (DDA235 only): | DPDT relay output - 2 sets Form C contacts rated 30V d.c. 0.25A. De-energised on fault. |
| Accessories: | Cables to connect to waveguide switches can be supplied on request. |

| Selection Guide | |
|------------------|---|
| DDA235-01 | Single Remote Waveguide Switch controller, including manual |
| DDA251-01 | Single Remote Waveguide Switch controller, including manual |