DOUBLE D ELECTRONICS LTD

DDA235/DDA251 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.

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 supports two industry-standard serial protocols, and the command set is compatible with the DDA70 and other waveguide switch controllers produced by Double D Electronics Ltd. 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.

The connector types and pinouts are compatible with the range of waveguide switch controllers produced by Double D Electronics Ltd, including the DDA70, DDA86, DDA219 and DDA224.

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.

Ordering Information

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