



DOUBLE D ELECTRONICS LTD

DDA75-XX SERIAL I/O PERIPHERAL

- * 1U 19" rack mount case.
- * 250mm or 450mm deep case
- * 100-240V a.c. power supply.
- * 32 I/O channels - configurable as inputs or outputs in blocks of eight.
- * 4-wire RS-422/RS-485 Interface
- * Ideal peripheral for Remote Monitoring & Control Systems



The DDA75 provides all the I/O required for typical remote monitoring and control applications, connecting to equipment which requires a discrete interface.

Its compact size and low cost mean that where more I/O is needed, it is practical to add a further DDA75 rather than using expandable units.

The unit implements an industry-standard 4-wire RS-485 bus, and two industry-standard serial protocols.

External Connections

8 off 8-pin 3.5mm pitch pluggable terminal blocks for I/O
IEC mains inlet

Optional 34-way IDC plug for connection to DD8092/DD8099 relay cards.

9-D socket for serial interface

Inputs

Accept volt-free contact, NPN open collector. Open circuit voltage +5V d.c. Switching current 5mA.

Outputs

Open drain outputs rated 24V 100mA.

Internal 'catch' diode, returned to internal +24V PSU

Link option for each block of four to provide either

- a) open drain - for switching an external power supply
- or b) Switched 0V, fixed +24V - for controlling external 24V relays and similar.

Optional 34-way IDC connector carries outputs 9-32; pinout compatible with DD8092/DD8098 relay cards.

Each block of outputs has a self-resetting fuse in the +24V d.c. line.

Maximum total output current from the internal power supply is 800mA.

Front panel

Power status indicator.

Remote poll LED - indicates host is interrogating device.

Serial Interface

RS-232 or 4-wire RS-485 asynchronous serial interface (link selectable)

9600 baud 7 data bits even parity.

Standard protocols are Printable ASCII (as used by STS, Miteq etc) and STX/ETX (as used by Scientific Atlanta).

Command set allows polling of summary status and input status. Outputs may be controlled.

Physical Size

1U high 19" rack mount.

Two depth options -

a) 250mm for maximum space behind

b) 450mm for ease of access if adjacent units deep

Ordering Information

| Inputs | Outputs | Depth | Part No |
|--------|---------|-------|----------|
| 32 | 0 | 250mm | DDA75-40 |
| 24 | 8 | 250mm | DDA75-31 |
| 16 | 16 | 250mm | DDA75-22 |
| 8 | 24 | 250mm | DDA75-13 |
| 0 | 32 | 250mm | DDA75-04 |
| 32 | 0 | 450mm | DDA75-84 |
| 24 | 8 | 450mm | DDA75-75 |
| 16 | 16 | 450mm | DDA75-66 |
| 8 | 24 | 450mm | DDA75-57 |
| 0 | 32 | 450mm | DDA75-48 |

Double D Electronics Ltd
Unit 6, Robins Wharf
Grove Road
Northfleet
Kent DA11 9AX
England

Tel: 01474 333456

Fax: 01474 333414

email: sales@ddelec.co.uk