



DDA76 ALARM & RECEIVING ATTENTION UNIT

- * 12 inputs - contact or voltage
- * Buffered outputs
- * RS-232/422/485 Serial Interface
- * Receiving Attention facilities
- * Flexible configuration
- * Common Alarm outputs
- * 1U case
- * Mains and d.c. power options
- * Redundant power facility



This unit provides flexible alarm handling facilities, with particular application in satellite earth stations.

The local front panel gives an indication of new alarms; these may be acknowledged using individual pushbuttons. A summary alarm indicator and optional sounder indicate unacknowledged alarms.

The unit incorporates a multi-standard interface port, through which alarm status may be obtained, and alarms may be remotely acknowledged. This may be configured for RS-232, RS-422 or 4-wire RS-485, and supports two industry-standard protocols.

The unit includes a number of configurable features. These may be set via the serial port, using a program which will run on most PCs. Alternatively options may be set via the front panel.

Ordering Information

- DDA76-01 Rack Alarm unit with manual and mains lead. Two sets buffered alarm
- DDA76-02 Rack Alarm unit with manual and mains lead. One sets buffered alarm

SPECIFICATION

- Packaging:** 19" rack mount unit, 1U high. 360mm deep.
- Power Supply:** 100-240V a.c. 50-60Hz.
20-60V d.c. floating input (Isolation 500V d.c. between d.c. power input and other low voltage circuitry)
- Redundancy:** Redundant power supplies achieved by cross-connecting two or three units, or by fitting an additional external power supply.
- Inputs:** 12 inputs to accept volt-free contacts or d.c. voltage of either polarity. Wetting current 3mA nominal. In d.c. input mode inputs

individually optoisolated (no common connection) - input voltage user configurable 4-6V, 10-30V or 40-60V d.c.

- Outputs: Relay contacts for:
- a) Unaccepted alarm
 - b) Accepted alarms
 - c) Any alarm
 - d) Each input; buffered indication of alarm state (two sets)
- All relay contacts rated 30V d.c. 0.5A.
- Front Panel: Master 'Unaccepted Alarm' indicator (red)
Alarm accept button for each input
Alarm LED (red) for each input
Receiving attention LED (yellow) for each input
Lamp test button
'PSU OK' LED
Sounder mute button with indicator
- Sounder: Local audible warning when unaccepted alarms. May be disabled via front panel switch.
- Serial port: Supports RS-232, RS-422, RS-485 4-wire with addressing. Protocol allows access to alarm and receiving attention status, and allows remote acceptance of alarms.
- Configuration: The following may be configured, via the front panel or the remote interface:
- a) Input polarity
 - b) Alarm latch option
 - c) Input debounce time (to eliminate transients)
 - d) Input masking (excludes from summaries)
- Connectors: IEC mains inlet
QM circular d.c. power connector
9-D socket - alarm input (12 off)
44-HD plug - buffered outputs (2 off) (option for one set outputs on two 25-way D-plug)
9-D plug - common alarm outputs
9-D socket - serial interface
- Protocol: Supports the following protocols without reconfiguration:
STX/ETX (as used by Scientific Atlanta, CPI)
"Printable ASCII" (as used by STS, Miteq, CPI)
Address set via rear panel DIP switch
- Command Set: Commands/enquiries for:
Alarm status
Receiving Attention status
Remote receiving attention
Configuration
- CE Marking: Designed to meet EN60950 (safety), EN550022 (EMC)