



# Discovery

1-4 Loop Addressable  
Approved Panels (Apollo Protocol)



Discovery Control Panel

Discovery  
Addressable Panel

## Overview

The **Discovery** analogue addressable panel range has been designed to work with Apollo Discovery & XP95 protocol devices. They are powerful, user friendly and designed to a high standard with approval to EN54, Parts 2 & 4. These panels have a considerable processing ability enabling highly definable cause and effect programming either local to the panel or network wide and also between our Voyager panel range. They are ideally suited to installations which require complex sounder and control/shutdown functions and signalling or for use as a master panel monitoring smaller panels on a larger site. The panel is programmed to operate to specific site requirements by means of a cause and effect matrix which can be programmed at a basic level at the panel or with our **Fusion** software editor \*

## Technical Features

- ◆ Expandable to 4 loops, 500mA current per loop.
- ◆ Wide range of loop devices (detection, interfaces, sounders, beacons etc.)
- ◆ Extensive detector mode change options via day/night settings or cause and effect
- ◆ User friendly unambiguous controls, menus and display
- ◆ 4 x 20 character LCD display - 40 character user device text available
- ◆ 32 zone LEDs for fire and fault indication as well as detailed on LCD
- ◆ Networkable up to 15 panels (networkable with Voyager panels, network repeaters and alarm manager)
- ◆ Up to 14 Local repeaters per panel, either 24VDC or mains powered versions
- ◆ New **Fusion** PC software cause and effect editor\*
- ◆ Powerful cause and effect programming - locally and over network
- ◆ Space for up to 12Ah 12V SLA battery set
- ◆ Sturdy, metal, lockable enclosure with controls access key switch
- ◆ Input/Output expandability via use of 8 way alarm and relay boards

\* We normally insist that training is received from us before issue of programming software. Please contact your usual supplier about obtaining training and software.

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# Specifications

For 2 - 4 loop panels figures are same as 1 loop unless shown in table

FUNCTION	Discovery 1 loop	2 Lp.	3 Lp.	4 Lp.	Comments
Mains Supply Voltage	230V ac				+10% / -15% Range
Battery Fuse	3.15A				20mm Glass fuse
Operating Temperature Range	-5° to 40° C				
Operating Humidity Range	5% to 95%				
Max. Batt. Charger Output	> 4.8 A				Quiescent
Max. PSU Output	5A 18-29V (3A 5V output)				Considering lowest o/p running on batteries
Conventional Sounder Circuits	2 x 24V nominal				1A 20mm Fuses
Aux DC Output Max. (Fused)	24V 500mA				Nominal
Remote Inputs	Yes				Silence, Evac, Reset, C. Change
Input / Output Expansion	Yes				8 Way alarm/relay boards
Mains Fail Batt. Current (no load)	145mA	170mA	195mA	220mA	
Battery Type (Set required for 24V)	2x 7Ah - 12Ah SLA				Max. 12Ah set fits in panel
Mains Fail Alarm Batt. Current (1 zone in alarm)	260mA	285mA	310mA	335mA	
Printer Option	Yes				Printer uses battery space
Network Option	Yes				Up to 15 Nodes
Repeater Panel Option	Yes				Up to 14 Repeaters
Panel Dimensions (mm W x H x D)	410 x 480 x 144				Depth including rear-mounting points
Native Panel Weight (no batteries or printer)	12.5 Kg				
Panel Colour	Light Grey RAL 7035				Textured paint finish

## Controls & Panel Connections

**User Controls** Controls Access Keyswitch  
Silence/Resound Alarms  
Reset  
Evacuate  
Silence Buzzer  
Test Alarms  
Test Display  
Scroll Messages  
Override Delay  
Access Menu  
Menu Up/Down  
Enter, Escape

**Panel Indications** Power Supply ON  
Fire  
Alert  
System Fault  
General Fault  
Alarm Fault/Disablement  
Delay On  
Maintenance  
General Disablement  
Buzzer Silenced  
Test  
More Messages  
Zone Fire & Fault/Isolated

### Panel Terminals

Loops 1 - 4 Out - positive & negative  
Loops 1 - 4 In - positive & negative  
Alarms 1 & 2 - positive & negative  
Aux Fire relays 1 & 2 - n/o, n/c & pole  
Aux Fault relay - n/o, n/c & pole (failsafe)

Aux 28VDC & 0V  
Remote Inputs: Evacuate  
Silence  
Reset  
Class Change  
Fault

Network Terminals A (-),B (+) & SCN (Screen)

Repeater Terminals A (-),B (+) & SCN (Screen)

IO Board Terminals A (-),B (+) & SCN (Screen)

### Other Inputs & Controls

Cherry G80 (Serial Keyboard) DIN Socket  
9 Pin male D type RS232 computer port  
SSD memory write protect switch  
Panel buzzer disable link  
Earth fault monitoring disable link  
Processor Reset button (soft reset)  
System Fault clear button  
Power connection from PSU  
Connection sockets for 4 loop cards, network module & IO / repeater driver module

## Part Numbers

2500110 Discovery 1 Loop Panel  
2500111 Discovery 2 Loop Panel  
2500112 Discovery 3 Loop Panel  
2500113 Discovery 4 Loop Panel

2500107 Panel Printer  
2500163 A1620 Network Interface  
2500162 A1619 Repeater & I/O board Interface  
2500168 PS2 Keyboard Adaptor

2500830 Repeater panel 24VDC (no PSU)  
2500842 Repeater panel 230Vac

2500157 A1535 8 way relay I/O board  
2500158 A1546 8 way alarm I/O board

2603005 Discovery semi flush bezel  
2603035 Discovery fully flush painted bezel & door  
2603036 Discovery fully flush s/steel bezel & door  
2603037 Discovery fully flush brass bezel & door

2500130 Discovery loop card A1585 (spare)  
2500143 Discovery motherboard A1579 (spare)  
2500144 Discovery display board A1580 (spare)  
2500204 Discovery power supply (spare)

Specifications may be altered at any time