Protec
Protec Fire Detection plc

3500 Fire Alarm Control Panel

- **Available in 2, 4 and 8 Zone Models**

- **Attractive Surface or Recessed Mounting**

- **Comprehensive Range of Engineering Functions**

- **Zone Disablements**

- **Ability to Differentiate Between Manual Call Point or Automatic Detector Alarm**

- **Programmable Sounders for Automatic and/or Manual Activation 72 Hour Standby as Standard**

- **Third party Approved to Latest EN54 Parts 2 and 4. Meets the Requirements of BS5839 Part 1**

The Protec 3500 range of conventional control panels has been designed to provide a simple, user-friendly, highly cost effective option with inbuilt flexibility previously only found in more complex addressable systems.

With up to 8 detection zones the 3500 range of Fire Alarm control panels are ideal for small to medium sized buildings such as industrial units, retail units, shops and schools.

The panels can be either surface or recessed mounted, with the controls and indications protected from unauthorised access by entering a user access code. These panels have the ability to identify if a 'FIRE' signal has been generated manually by a person activating a Manual Call Point (MCP) or automatically from a detector. This knowledge enables an appropriate cause and effect sequence to be implemented (time delays, for example) to allow for alarm verification for automatic detectors, but immediate alarms from MCPs. Cause and effect functions include coincidence detection, zone delays, pulsing sounders and fire relay. Interconnection with other

systems is simplified as zones can be configured as 'non-latching', and there is a dedicated 'class change input' terminal. The 3500 range of control panels are third party approved to the latest European standard and meets all the requirements of BS5839 pt1.

The 3500/RP Repeat Indicator Panel has been designed to connect to the 3500 panel serial data output. The 3500/RP mimics all the main panel display functions but does not have any control fucntions.

Up to five 3500/RP panels may be connected to a 3500 main panel.

Order Codes

3502	62-807-UK
3504	62-808-UK
3508	62-809-UK
3500/RP	62-826-UK

A D D R E S S I N G   S A F E T Y   S Y S T E M S   W I T H   I N T E L L I G E N C E

Technical Specification

Power Supply Mains	100V-240V ac	**Number of Alarm Circuits**	2
Integral Charger	600mA	**Alarm Circuit EOL Value**	10kΩ 1/4W +/- 5%
Auxiliary 24V output	24V dc, 150mA max	**Maximum Alarm Load**	400mA per circuit
Maximum Battery Size	2 x 12V 3.3Ah	**Class Change Input**	Activates alarm outputs
Mains Fuse	16A time delay (not replaceable)	**Global Fault Contacts**	24V DC 1 A rating
Battery Fuse	1.6A resettable fuse	**Global Fire Contacts**	24V DC 1 A rating
Working Voltage	18V to 30V DC	**Temperature Range**	-5 to 40ºC
Current Consumption	22mA (24V DC) + Zone Load	**Humidity Limit**	95% Non-Condensing
Number of Detector Zones	2 (3502), 4 (3504), 8 (3508)	**Repeat Panel Operating Current**	15mA (Standby) 30mA (Alarm) at 24V DC
Max Zone Cable Length	500 metres	**Dimensions (mm)**	228 (W) x 345 (H) x 111 (D)
Max Zone Cable Capacitance	0.25µF		
Max Zone Cable Resistance	15Ω per conductor	**Product Approval**	BSI Kitemark No: KM 575025
Detector Circuit EOL Values	Resistive(8.2kΩ) or capacitive (100µF+22Ω)		CoCP: 0086-CPR-575026 DoP No: PFD-CPR-0074 (3502)
Max Quiescent Zone Load	5mA per zone		PFD-CPR-0075 (3504)
Max Number of Detectors	25 per zone (smoke or heat)		PFD-CPR-0076 (3508)
Maximum Number of Devices	32 (MCP and Dets) per zone		Relevant Standard: EN54 & AS7240 Part 2 & 4
MCP Series Resistor Value	180Ω +/- 5%		

CE
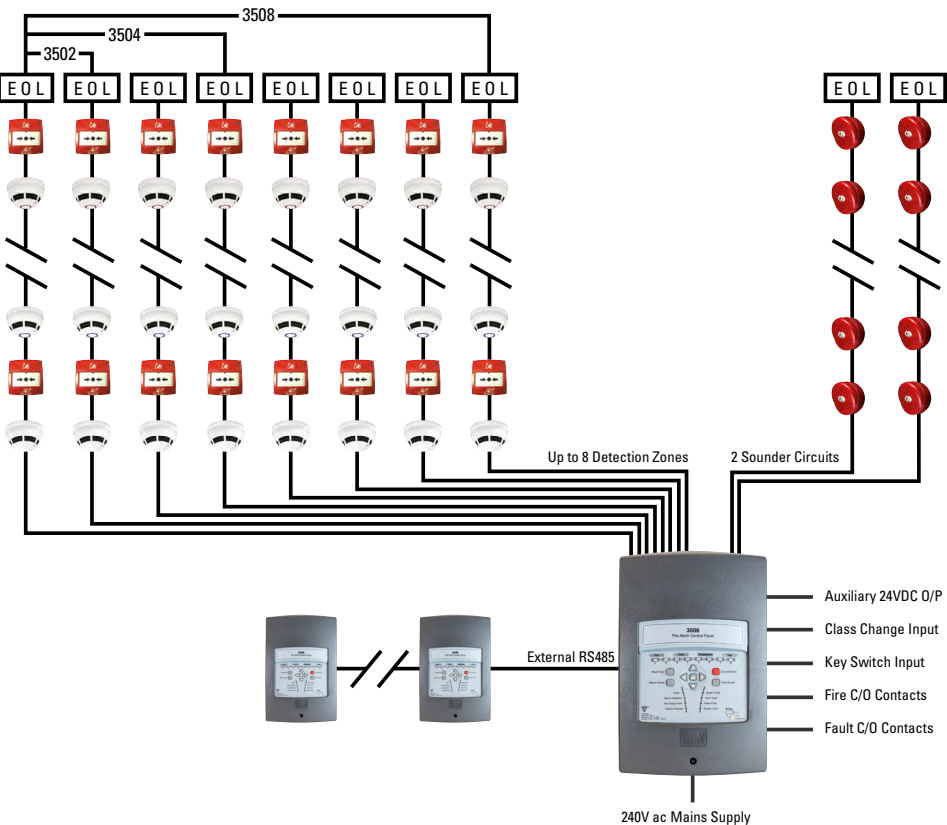
KEY

3000*PLUS*/HT

3000*PLUS*/OP

3000*PLUS*/OPHT

3000/MCP

3000/VAD/W

3508
Up to 8 Detection Zones

2 Sounder Circuits

External RS485

Auxiliary 24VDC O/P
Class Change Input
Key Switch Input
Fire C/O Contacts
Fault C/O Contacts

240V ac Mains Supply

3502
3504
3508

EOL

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