# ELAN®
## HS-5400

**One to four loop analogue addressable fire control panel**

The HS-5400 control panels are fully expandable from 1-4 loops and supplied with 4 on-board sounder circuits, 20 programmable zonal LED's, 25 system LEDs for information purposes and 4 programmable function buttons.

The control panel consists of the latest dual flash-based microprocessor technology combined with a high resolution graphical LCD display and tactile keypad for engineering configuration and end-user operation.

Powerful cause and effect programming coupled with 'DynamiX' zoning makes the panel suitable for a wide range of applications from small to large complex multi-area systems.

An extensive suite of user-friendly Windows based PC software is available for configuration, service management and logo programming.

Simply adding a network card allows the panel to communicate with any other Elan or network peripheral including; remote display units, 'ipGateway' or BMS/Graphical Interface.

# Features

## Main Features

- One to four loop analogue fire control panel
- 20 programmable zonal / 25 system LED's with slide in labels
- Dedicated loop driver for Apollo & Hochiki protocol support
- Graphical LCD user interface and support for up to 200 fire zones allowing full EN54 compliance without additional hardware expansion
- Dual flash-based microprocessor technology with real-time clock on-board
- Dedicated USB & RS232 Serial Port for direct PC or modem connection
- Installer friendly 'Auto-Learn', 'Loop Detection' and on-board scope facility for ease of commissioning and fault finding

- Fully programmable via the on-board keypad or PC configuration tools
- The graphical display can be configured to operate with virtually any language or character set and allow the installer's logo to be applied using the 'Logo' application software
- Robust removable equipment chassis with plug-in connectors for simple fixing and cable termination
- Integral 'P-Bus' for system expansion via available option cards
- Connection to the 'Ad-Net' peer-to-peer network is achieved using a simple plug-in network card allowing the system to share up to 2000 zones with full cross panel reporting, control and site-wide cause and effect functionality

| Models | Loops | Battery Capacity |
|---|---|---|
| HS-5401 | 1 | 24v 4Ah internal (min), 24v 18Ah internal (max) |
| HS-5401D | 1 | 24v 4Ah internal (min), 24v 45Ah internal (max) |
| HS-5402 | 2 | 24v 4Ah internal (min), 24v 18Ah internal (max) |
| HS-5402D | 2 | 24v 4Ah internal (min), 24v 45Ah internal (max) |
| HS-5403 | 3 | 24v 4Ah internal (min), 24v 18Ah internal (max) |
| HS-5403D | 3 | 24v 4Ah internal (min), 24v 45Ah internal (max) |
| HS-5404 | 4 | 24v 4Ah internal (min), 24v 18Ah internal (max) |
| HS-5404D | 4 | 24v 4Ah internal (min), 24v 45Ah internal (max) |

## Technical specifications

| | |
|---|---|
| Base Technology | Dual flash-based processors with real-time clock, trace diagnostics, programmable languages and character sets |
| Display | Backlit 240 x 64 graphical LCD |
| LED Indicators | 22 red (1 x Fire, 1 x More Alarms, 20 x Zonal Programmable), 1 green (Power), 13 amber and 12 bi-colour (Fault & System) |
| Controls | Alpha numeric keypad permitting navigation, Reset, Mute, Silence, Resound, Evacuate and 4 x programmable push buttons |
| Protocol | Apollo (XP95/Discovery), Hochiki ESP |
| Number of Fire Zones | 2000 'DynamiX' (200 per individual panel) |
| Number of Loops | 1 - 4 |
| Devices per Loop | Protocol dependant |
| Loop Current | 500mA per loop |
| On-Board Sounder Circuits | 4 x 1 amp, programmable |
| On-Board Relays | 2 x 1 amp, 30v AC/DC programmable (10mA, 5v min) - Expandable using HS-507 |
| Auxiliary Supply | 1 x 24v, 500mA |
| Programmable Input | 1 x monitored, programmable input, on-board |
| Programmable key switch inputs | 8 x Volt Free Digital Inputs |
| Total Available Output Current | 5A maximum, available for loop current + sounder outputs + aux supply |
| Mains Supply | 200-240v 46-63Hz AC (+10% - 15% tolerance) 1.4A max |
| Charger Current | 2A temperature compensated |
| Serial Port | 1 x On-Board RS232 connection for PC, modem, IP or portable printer |
| USB Interface | 1 x USB B type connection for PC communication |
| Programming | On-Board keypad or PC running Windows tools |
| Event Log | 5000 event & diagnostics + 500 fire |
| Printer (Optional) | On-Board |
| Networking | Optional plug in Network Card (HS-503-std or HS-509-fault tolerant) |
| Enclosure | Steel IP30 / Radon MW334E Interpon powdercoat |
| Cable Entry | Via 20mm knockouts at top and rear of cabinet |
| Size, H x W x D mm | Std Enclosure: 470 x 450 x 115<br>Deep Enclosure (D): 470 x 450 x 190 |