

# ELAN

## HS-5100

**SINGLE LOOP ANALOGUE ADDRESSABLE FIRE ALARM CONTROL PANEL**



The HS-5100 series of control panels are supplied with a single loop driver card, 2 on-board sounder circuits, 20 programmable zonal LED's with slide-in labels, and 25 system LED's for information purposes. There are also 4 programmable function buttons with LED indication for confirmation of operation.

The control panel consists of the latest dual flash-based microprocessor technology combined with a high resolution / high contrast graphical LCD display and tactile keypad providing a simple 'Select & Click' programming aid for engineer configuration and end-user operation.

Powerful cause and effect programming coupled with 'Dynamix' zoning, and enhanced 'Trace Diagnostics' makes the panel suitable for a wide range of site applications from small to large complex multi-area systems. Fully programmable on-site via the on-board alphanumeric keypad, or PC-Net configuration software.

An extensive suite of user-friendly Windows based PC software programs have been developed to enhance your experience when using the Elan series of fire panels. The suite incorporates a number of different programmes to include a Configuration, Service, Logo and Virtual Panel Tool to allow the flexibility of the equipment to be fully explored.

Simply adding a network card allows the panel to communicate with any other Elan fire panel, current range of Advanced Electronics fire panels, Remote Terminal, or Network Peripheral, such as, 'ipGateway™' or BMS/Graphical Interface. The network operates as a true peer-to-peer system and can be configured in a fault-tolerant loop or radial format.

### Features at a glance

- Fully approved to EN54 part 2, 4 & 13 and CE marked under the Construction Products Regulation (CPR)
- Global compliance
- Open protocol system
- 3 year warranty as standard
- Large graphical LCD user interface
- Powerful cause & effects programming
- True, peer to peer networking
- On board printer option (M enclosure only)
- 20 zonal LED indicators
- Programmable push buttons



G-210022



BS-EN 54-2 & 4



0786-CPD

Models	Description
HS-5101	Single loop panel in small enclosure
HS-5101M	Single loop panel in medium enclosure

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## Compatibility

ELAN HS-5100 control panels are open protocol and currently support, Apollo XP95/Discovery and Hochiki ESP protocols.

## Features

- 20 programmable Zonal / 25 System LED's with slide-in labels.
- Dedicated loop driver for Apollo & Hochiki protocol support.
- Advanced graphical LCD user interface and support for up to 200 fire zones by default 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 alphanumeric 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.

## Base Technology

Dual flash-based Processors with Real-Time Clock, 'Trace' Diagnostics, Programmable Languages and Character Sets

## Display

White Backlit 240 x 64 Graphical LCD

## LED Indicators

4 Red (3 x Fire, 1 x More Alarms), 1 Green (Power) & 20 Amber (Fault & System)

## Controls

Alpha Numeric Keypad permitting Navigation, Reset, Mute, Silence, Resound, Evacuate, and 4 x Programmable Push Buttons

## No of Fire Zones

2000 'Dynamix' (200 per individual panel)

## No of Loops

1

## Loop Current

500mA

## On Board Sounder Circuits

2 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

1 Volt Free Digital Input (Standard Enc.), 8 x Digital Inputs (Medium Enc.)

## Total Available Output Current

3A maximum, available for loop current + sounder outputs + auxiliary supply

## Mains Supply

200 - 240v 47-63 Hz AC (+10%, -15% tolerance) 1.0A Max

## Battery Capacity

24v 4 Ah Internal (min), 24v, 7 Ah Internal (max),  
Medium Enc. (M) = 24v, 12Ah Internal (max)

## Charger Current

1A 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 & diagnostic + 500 fire

## Networking

Optional plug in Network Card (HS-503 - Standard, or HS-509 - Fault-Tolerant)

## Enclosure / Colour

Steel IP30 / Radon MW334E Interpon powdercoat

## Cable Entry (20mm Knockouts)

13 x top & 8 x rear,  
Medium Enc. (M) = 17 x top & 11 x rear

## Size, H x W x D mm

Standard Enc: 340 x 340 x 85  
Medium Enc (M): 340 x 430 x 115



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Assessed to ISO 9001  
LPCB Ref. No. 810

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Data Sheet DS0020 Issue 4.0