

# Hush-Pro Multi Sensor Fire Detector

Part No. **HP414**



## Overview

A high-quality multi-sensor fire detector for use with C-TEC's HP508 Hush-Pro BS5839-6 Grade C Controller.

Certified to EN54-5, 7 & 17 by the LPCB (pending).

Onboard A2 heat & optical 0.2dB/m smoke sensors make it ideal for detecting a wide range of fires whilst also reducing false alarms.

Smart algorithms help reduce false alarms.

Drift compensation functionality.

0.16dB/M sensitivity/obscuration level.

Two 8mm x 2mm ultra-bright red LED indicating strips offering 360° visibility.

Compatible with our HP508 Hush Controller.

Up to 16 field devices (detectors, sounders and/or I/O units) per Controller.

## Technical Specifications

Approvals/certifications	Certified to EN54-5, 7 & 17 by the LPCB (pending).
Compatibility	Compatible with C-TEC's HP508 Hush-Pro Controller.
Type	Muti-Sensor (Heat assisted optical 0.2dB/m + A2 heat).
Application/operation	As well as operating independently, the CA414's smoke & heat sensors combine to produce a sensitive response to freely burning fires, e.g. when a rise in heat is detected, its smoke response level reduces for improved detection and reduced false alarms.
Application temperature	25°C typical, 50°C max.
Static response temperature	54°C min, 65°C max.
Sensitivity	0.2dB/m optical; A2 heat.
Supply wiring	2-wire monitored, polarity sensitive.
Supply/operating voltage	27 to 40V DC.
Quiescent current	370uA - 5mA @ 24V.



Alarm current	6mA (LEDs illuminated).
Indicators	2 LED indicator strips emitting red light when in alarm offering 360° visibility. Optional remote LED.
Connections	Via HP408 base: 1 +Ve IN (analogue switch); 2 +Ve OUT (analogue switch); 3 Remote LED +Ve; 4 0V; 5 0V; 6 Screen; 7 Screen.
Expansion connections	Remote LED output available via HP408 or 408R base. Current source to the negative line, short-circuit protected. Max voltage 2.7V DC.
Product dimensions (mm)	102.2mm diameter x 37mm deep (detector in base); 102.2mm diameter x 57.5mm deep.
Construction & finish	White polycarbonate casing rated to UL94 V-2 with nylon parts.
IP Rating	IP42.
Weight	99g (not in base); 154g (in base).
Operating conditions/temperature	-20°C to +85°C.
Notes	Requires a HP408 Hush-Pro base. HP408R relay base also available.



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