

## CAST-PRO Smoke + Heat Multisensor

Part No. CP414



### Overview

- A programmable CAST-PRO smoke & heat multisensor fire detector designed to detect real fires quickly and reduce false alarms effectively.
- Certified to EN54-5, 7, 13, 17 & 29 by Kiwa Telefication and to EN54-13 by DBI.
- Compatible with C-TEC's ZFP and XFP CAST protocol addressable fire panels.
- MASC™ (Miniature Advanced Smoke Detection Chamber) and AFFIRM™ algorithms provide incredible tolerance to false alarms whilst enhancing the detection of real fire conditions.
- Drift compensation functionality.
- Onboard short circuit loop isolator.
- Includes two 8mm x 2mm ultra-bright red LED indicating strips.
- Multiple detection modes.
- <1mA alarm current.
- 570uA typical quiescent current @ 40V DC.
- Compatible with C-TEC's CA408 CAST base c/w integrated locking mechanism & ID tag.



### More Information

'CAST' is the world's most-advanced 'distributed intelligence' fire alarm system protocol. Conceived, designed and realised by C-TEC, it involved the creation of a powerful proprietary communication protocol (C-TEC Addressable System Technology, CAST) and multiple control panels & field devices. Its key features include:-

- 255 devices per loop.
- Autonomous decision-making for faster response times.
- Multiple type codes.
- 40V loop drive voltage.
- Two 'soft' addressing options - automatic via the panel or manual via a powerful handheld programmer.
- Powerful multi-level addressing facilitates easy device addition and swapped device identification.
- Multiple functionality at a single address (integrated



devices) via our CAST-PRO devices. • Volumes, tones & detector modes can be changed at compatible panels. • High-speed data transmission and robust data transfer. • Intrinsically EN54-13 compliant. • Geographical location of short and open circuit faults (a short circuit isolator is included as standard in every CAST field device). • Replace device function. • Future seamless integration with other CAST life safety systems reducing energy, servicing, installation and repair costs. • Designed and manufactured in the UK.

## Technical Specifications

Approvals/certifications	Certified to EN54-13 by Kiwa Telefication & DBI, CPR number 0063-CPR-242190021, Kiwa Telefication certified to EN54-5, 7, 17 & 29
Compatibility	Compatible with C-TEC's XFP/ZFP CAST Protocol Addressable Fire Panels.
Type	Multisensor (heat & smoke) detection.
Sensitivity	8 Detection Modes (default for this device is Mode 7).
Supply wiring	2-wire, polarity sensitive.
Supply/operating voltage	22 to 40V DC.
Quiescent current	570uA @ 40V.
Alarm current (Imax at Vmin)	<1mA.
Alarm current (Iavg at Vmin)	<1mA.
Sound pressure level (LAFmax) at Vmax at 1m	N/A.
VAD category & coverage	N/A.
Indicators	2 LED indicator strips emitting red light when in alarm offering 360° visibility. Optional remote LED.
Connections	Via CA408 base: 1 +Ve IN (analogue switch); 2 +Ve OUT (analogue switch); 3 Remote LED +Ve; 4 0V; 5 0V; 6 Screen; 7 Screen.
Product dimensions (mm)	105mm diameter x 48mm deep (detector only); 105mm diameter x 65mm deep (detector in base).
IP Rating	IP21C
Weight	119g (not in base); 173g (in base).
Operating conditions/temperature	-10°C to +50°C. Max relative humidity: 95% (non-condensing)
Notes	Requires a CA408 CAST base. CA408R relay base also available.



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