

# CAST-PRO Smoke + Heat Multisensor c/w Voice Sounder & O-C-1.9-4 Red VAD

Part No. **CP414VVR**



## Overview

- Multiple functionality in a single device - smoke & heat multisensor fire detection plus an 86db(A) voice sounder and an O-C-1.9-4 red VAD - detects real fires quickly, reduces false alarms effectively and indicates true alarm conditions decisively.
- Certified to EN54-3, 5, 7, 13, 17, 23, & 29 by Kiwa Telefication.
- 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 and different sensitivities for different times of the day.
- Six selectable voice messages with tones (2 evacuate, 1 alert, 1 all clear & 2 system test messages).
- 24.9mA max. alarm current (max vol, VAD on).
- 590uA 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., CPR number 0063-CPR-242190011, Kiwa Telefication certified to EN54-3, 5, 7, 17, 23 & 29
Compatibility	Compatible with C-TEC's XFP/ZFP CAST Protocol Addressable Fire Panels.
Type	Heat & Smoke Fire Detection plus Voice Sounder & White VAD
Sensitivity	8 Detection Modes (default for this device is Mode 7).
Supply wiring	2-wire, polarity sensitive.
Supply/operating voltage	28 to 40V DC.
Quiescent current	590uA @ 40V.
Alarm current (Imax at Vmin)	24.9mA (max volume, VAD lit).
Alarm current (Iavg at Vmin)	14.6mA (max volume, VAD lit).
Sound pressure level (LAFmax) at Vmax at 1m	86dB(A).
VAD category & coverage	O-C-1.9-4 (2m2/mA efficiency; 0.5Hz Synchronised).
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 51mm deep (detector only); 105mm diameter x 68mm deep (detector in base).
IP Rating	IP21C
Weight	131g (not in base); 186g (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.



T 01942 322744 E sales@c-tec.co.uk

F 01942 829867 W www.c-tec.com



C-TEC, Challenge Way, Martland Park, Wigan, WN5 0LD United Kingdom