



UNLOCKING THE FUTURE OF FIRE DETECTION



You're safe with C-TEC



THE FUTURE OF FIRE DETECTION IS HERE

Detects real fires quickly

Simplifies installation

Reduces false alarms reliably

Signals true alarm conditions decisively



British-built and third-party certified to all relevant EN 54 standards, C-TEC's new CAST-PRO fire detection and alarm devices represent a major breakthrough in addressable fire detection technology.

By utilising some of the world's most advanced, innovative and patented technology, their features and algorithms adapt rapidly to changes in the environment to detect real fires quickly, reduce false alarms reliably and signal true fire alarm conditions decisively.



With heat, smoke and CO fire detection, plus a tone sounder or voice sounder and a visual alarm device all available in one unit, protection is improved, installation is simplified and the device's carbon footprint is reduced.

Compatible with C-TEC's ZFP CAST touchscreen-controlled addressable fire panel and ENVISION Cloud-based data management software, CAST-PRO gives you everything you need to satisfy the requirements of today's complex multi-purpose buildings.



HEAT SMOKE

INTEGRATED

**MULTI-SENSOR
WHITE VAD**



CO

**92db SOUNDER
VOICE SOUNDER
RED VAD**

**OPEN TO
SEE THE
FUTURE
OF FIRE
DETECTION**



HEAT SMOKE CO
INTEGRATED
 MULTI-SENSOR WHITE VAD 92db SOUNDER
 VOICE SOUNDER RED VAD

KEY FEATURES

Attractive compact and unobtrusive housing is ideal for all environments

Snap-in inserts identify the exact device type

Smoke	Heat	Smoke + Heat	Smoke + Heat + CO
Voice Sounder	Tone Sounder		

Ultra-efficient C-3-9.4 rated EN54-23 white VAD facilitates compliance with the Equality Act (red VAD variants also available rated at O-C-1.9-4)

Revolutionary MASC™ smoke detection chamber with non-focal non-linear prismatic angular bandpass filter - detects real fires quickly & filters out false alarms effectively

Sophisticated thermal & smoke flow vanes ensure optimum operation from all angles

Powerful 92dbA sound output with multiple EN54-3 certified alarm tones (Certified voice variants also available with custom messages to special order)

Sophisticated AFFIRM™ algorithms filter out unwanted alarms caused by dust, steam and insects but respond to real fires very quickly

10 year EN54-31 certified self-testing CO cell with the ability to detect EN 54-26/30 fire events and EN 50291 toxic gas events

Practical snap-in ID tag for device labelling

Universal electronics-free CAST base with plenty of space for cable and connections

Fully SMT PCB with conformally coated components for maximum reliability, manufactured at C-TEC's state-of-the-art UK facility

Cutting-edge contamination traps extend device life (contamination levels are reported to the ZFP fire alarm panel and ENVISION™ Cloud)

Integral EN54-17 short circuit loop isolator

Responsive sub-miniature thermistor constantly monitors for temperature changes in line with EN54-5

Dual LED indicator strips offer 360° visibility from all angles

IP21C rated as standard – no need for additional gaskets

To get the full picture scan the code or visit cast-pro.com



Multiple fully EN54 certified detection & alarm functions – heat, smoke, CO, tone sounder or voice sounder and VAD – in one compact CAST-PRO device



Advanced CAST-PRO sensing and programmable operation modes (day/night etc) allows a site to be set up to suit its exact requirements



Pioneering CAST-PRO fire sensor design and advanced algorithms means fewer false alarms but a very rapid response to real fire alarm conditions



Less wiring & lower installation costs – advanced CAST-PRO single device detection & alarm solution provides multiple on-site engineer and end user benefits



Fully compatible with C-TEC's ENVISION Cloud based 'Fire IoT' data management software via the ZFP touchscreen-controlled fire alarm panel



Designed and manufactured by C-TEC in its multiple third-party factory-process approved UK headquarters and dedicated R&D facility



Environmentally-friendly – CAST-PRO's highly efficient integrated single device solution means less plastic and a lower carbon footprint

CAST-PRO Technical Specifications & Order Codes

ORDER CODE (White Housing)	CP416	CP402	CP414	CP414T	CP414V	CP414TV	CP414TVR	CP414VV	CP414VVR
ORDER CODE (Black Housing)	n/a		CP414B	n/a		CP414BTV	n/a		
DESCRIPTION	CAST-PRO Smoke Detector	CAST-PRO Heat Detector	CAST-PRO Multisensor Detector	CAST-PRO Multisensor Detector c/w Tone Sounder	CAST-PRO Multisensor Detector c/w Voice Sounder	CAST-PRO Multisensor Detector c/w Tone Sounder & White VAD	CAST-PRO Multisensor Detector c/w Tone Sounder & Red VAD	CAST-PRO Multisensor Detector c/w Voice Sounder & White VAD	CAST-PRO Multisensor Detector c/w Voice Sounder & Red VAD
CERTIFIED STANDARDS	EN 54-7 EN 54-17	EN 54-5 EN 54-17	EN 54-5 EN 54-7 EN 54-17 EN 54-29	EN 54-3, EN 54-5, EN 54-7, EN 54-17, EN 54-29		EN 54-3, EN 54-5, EN 54-7, EN 54-17, EN 54-23, EN 54-29			
CPR NUMBER	0063-CPR-242190022	0063-CPR-242190023	0063-CPR-242190021	0063-CPR-242190019		0063-CPR-242190011			
COMPATIBLE PANELS	ZFP CAST 1-8 LOOP TOUCHSCREEN CONTROLLED PANELS								
COMPATIBLE BASE	CA408 CAST detector base, ceiling mounting only								
INDICATORS	Two red LED indicator strips offering 360° visibility								
DIMENSIONS	105mm diameter, 48mm deep (65mm deep on CA408 base)					105mm diameter, 51mm deep (68mm deep on CA408 base)			
SUPPLY VOLTAGE	22 to 40Vdc				28 to 40Vdc				
ALARM CURRENT <i>I</i> _{max} @ <i>V</i> _{min} @ Max Vol, VAD on	<1mA			5.4mA	17.1mA	13.2mA		24.9mA	
ALARM CURRENT <i>I</i> _{avg} @ <i>V</i> _{min} @ Max Vol, VAD on	<1mA			5.0mA	9.1mA	10.8mA		14.6mA	
POWER @ 28Vdc	<28mW			140mW	255mW	300mW		410mW	
ENVIRONMENT TYPE	Type A (Indoor Use)								
QUIESCENT @ 40Vdc	570µA	570µA	570µA	590µA	590µA	590µA		590µA	
SOUND PRESSURE LEVEL (LAF _{max}) at <i>V</i> _{max} @ 1m	n/a			92db(A)	86db(A)	92db(A)		86db(A)	
IP RATING (EN 60529)	IP21C								
VAD CATEGORY (EN 54-23)	n/a				C-3-9.4		O-C-1.9-4	C-3-9.4	O-C-1.9-4
VAD EFFICIENCY	n/a				10m ² /mA		2m ² /mA	10m ² /mA	2m ² /mA
CONSTRUCTION MATERIAL	Polycarbonate								
WEIGHT (minus base)	118g	118g	119g	122g	122g	130g		131g	
OPERATING TEMP.	-10°C to +55°C with max. 95% RH (non-condensing)								

ORDER CODE (White Housing)	CP411	CP411T	CP411V	CP411TV	CP411TVR	CP411VV	CP411VVR
DESCRIPTION	CAST-PRO CO Multisensor Detector	CAST-PRO CO Multisensor Detector c/w Tone Sounder	CAST-PRO CO Multisensor Detector c/w Voice Sounder	CAST-PRO CO Multisensor Detector c/w Tone Sounder & White VAD	CAST-PRO CO Multisensor Detector c/w Tone Sounder & Red VAD	CAST-PRO CO Multisensor Detector c/w Voice Sounder & White VAD	CAST-PRO CO Multisensor Detector c/w Voice Sounder & Red VAD
CERTIFIED STANDARDS	EN 54-5, EN 54-7, EN 54-17, EN 54-29, EN 54-31	EN 54-3, EN 54-5, EN 54-7, EN 54-17, EN 54-29, EN 54-31		EN 54-3, EN 54-5, EN 54-7, EN 54-17, EN 54-23, EN 54-29, EN 54-31			
CPR NUMBER	0063-CPR-242190020	0063-CPR-242190012		0063-CPR-212190016			
COMPATIBLE PANELS	ZFP CAST 1-8 LOOP TOUCHSCREEN CONTROLLED PANELS						
COMPATIBLE BASE	CA408 CAST detector base, ceiling mounting only						
INDICATORS	Two red LED indicator strips offering 360° visibility						
DIMENSIONS	105mm diameter, 48mm deep (65mm deep on CA408 base)			105mm diameter, 51mm deep (68mm deep when on CA408 base)			
SUPPLY VOLTAGE	22 to 40Vdc			28 to 40Vdc			
ALARM CURRENT <i>I</i> _{max} @ <i>V</i> _{min} @ Max Vol, VAD on	<1mA	5.4mA	17.1mA	13.2mA		24.9	
ALARM CURRENT <i>I</i> _{avg} @ <i>V</i> _{min} @ Max Vol, VAD on	<1mA	5.0mA	9.1mA	10.8mA		14.6mA	
POWER @ 28Vdc	<28mW	140mW	255mW	300mW		410mW	
ENVIRONMENT TYPE	Type A (Indoor Use)						
QUIESCENT @ 40Vdc	630µA						
SOUND PRESSURE LEVEL (LAF _{max}) at <i>V</i> _{max} @ 1m	n/a	92db(A)	86db(A)	92db(A)		86db(A)	
IP RATING (EN 60529)	IP21C						
VAD CATEGORY (EN 54-23)	n/a			C-3-9.4	O-C-1.9-4	C-3-9.4	O-C-1.9-4
VAD EFFICIENCY	n/a			10m ² /mA	2m ² /mA	10m ² /mA	2m ² /mA
CONSTRUCTION MATERIAL	Polycarbonate						
WEIGHT (minus base)	122g	125g	125g	133g		134g	
OPERATING TEMP.	-10°C to +55°C with max. 95% RH (non-condensing)						

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