

## XFP 1 Loop 16 Zone Addressable Fire Panel (C-TEC CAST protocol)

Part No. **XFP501E/CA**



### Overview

C-TEC's tried and trusted XFP single loop 16 zone addressable fire alarm panel - now available with C-TEC's own digital fire alarm system protocol, CAST.

With a powerful 40V 500mA loop driver allowing the connection of up to 255 CAST devices, the installation of a cost-effective, feature-packed addressable fire alarm system has never been easier.

Always thought of the XFP as an entry-level fire panel? Think again. Thanks to CAST's multiple type codes, high speed data transmission and two speedy soft addressing options (automatic via the panel or manually via a handheld programmer/device tester), it is undoubtedly one of the most powerful single loop fire panels around. This, and its ability to sit on a network of up to 8 XFP master panels, makes it ideal for use in small to medium sized stand-alone applications and larger, more sophisticated installations alike.

See below for a full list of XFP/CAST features.

### More Information

#### PROTOCOL FEATURES:

CAST is the world's most-advanced 'distributed intelligence' fire alarm system protocol. Conceived, designed and realised by C-TEC as part of a five-year, multi-million pound project, it involved the creation of a powerful proprietary communication protocol (C-TEC Addressable System Technology, CAST) and multiple control panels & field devices. Now available to purchase, 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) - due 2019.

Volumes, tones & detector modes can be changed at compatible panels.

High-speed data transmission and robust data transfer.



Intrinsically EN54-13 compliant.

Provides geographical location of short and open circuit faults (a short circuit isolator is included as standard in every CAST field device).

Replace device function.

Programmable multi-function status LED.

Future seamless integration with other CAST life safety systems reducing energy, servicing, installation and repair costs.

Designed and manufactured in the UK.

#### PANEL FEATURES:

Certified to EN54-2/4 by the Loss Prevention Certification Board (LPCB).

Two independently programmable conventional sounder circuits.

Two programmable inputs.

A fault output relay and three programmable relay outputs with voltage free changeover contacts.

A selection of zone dependency/coincidence functions.

A day/night (building occupied/unoccupied) function.

An investigation delay period function.

Phased evacuation facility.

An alarm counter that records how many times the panel has been in alarm state.

Powerful short circuit protected loop drivers.

An integral EN54-4/A2 switch mode.

Adjustable contamination levels.

Earth fault monitoring.

Combined keypad / keyswitch entry to Access Levels 2 and 3.

999 event monitoring.

An intuitive Windows based upload-download PC program.

Up to eight XFP main panels (any variant) can be connected onto a two-wire RS485 non-redundant network. Alternatively, up to eight XFP repeaters can be connected to any non-networked main panel.

## Technical Specifications

Approvals/certifications	Certified to EN54-2/4 by the LPCB.
Protocol/compatibility	C-TEC CAST.
Mains supply	230V 50/60Hz.
Mains rated current	350mA maximum.
Internal power supply	27Vdc nominal.
Total output current limited to	14A @ 230Vac (Imax.A 210mA; Imin. 40mA).
Quiescent current	50mA (loop unloaded).
Max battery size and type	2 x 12V 3.2Ah VRLA connected in series.
No. of loop drivers	1.
Max. loop output current	500mA (40V max).
Max. loop length	1KM.
Max. addressable devices per loop	255.
No. of conventional sounder circuits	2 (Max. length per circuit is 500m).
EOL resistor value	68000hm 5% Tol. 0/25W (blue, grey, red, gold).
Max. sounder output current	400mA.



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Auxiliary relays	3 x Programmable Relays (programmable from C&Es). 1 x Fault Relay (active when no faults are present). Volt free single pole changeover. Max. switch current 1A; Max. switch voltage 30Vdc.
Other outputs	24V Aux. Power (19.5V min, 28V max). Protected by a resettable fuse. Max. current 100mA.
Auxiliary inputs	2 x Programmable Inputs (programmable from C&Es). Connect to 0V to trigger, Max. input voltage 27V (non-latching).
PC connection	PC connection via RS232 moxex connector (supplied in XFP507 upload/download software kit); No printer connection available.
Indicators	2 line x 40 character backlit display; 16 Zonal LEDs, General Fire; Energised; Pre-Alarm; Remote Output Activated; Remote Output Disabled; Accessed; Disablement; Test; Silenced; General Fault; System Fault.
Connections	Fixed, largest acceptable conductor size 1mm <sup>2</sup> .
Expansion connections	2-wire RS485 non-redundant network/repeater connection available via optional XFP761 network card. Max. 8 mains per network or 8 repeaters per non-networked main. Limit 1KM (main panel network) or 500M (repeater network).
Product dimensions (mm)	380 W x 235 H x D 96mm;
Construction & finish	Plastic lid and base; RAL7035 textured.
IP Rating	IP30.
Weight	1.8kg (without batteries).
Operating conditions/temperature	-5°C to +40°C. Max relative humidity: 95%.



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