

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

Part No. **XFP501E/CA**



Overview

C-TEC's tried and trusted XFP one loop 16 zone addressable fire panel - now available with C-TEC's own CAST digital fire alarm system protocol and fully certified to EN54 parts 2, 4 & 13. With a powerful 40V 450mA loop driver allowing the connection of up to 255 CAST devices, the installation of a cost-effective, feature-packed addressable fire detection and alarm system has never been easier. Always thought of the XFP as an entry-level fire panel? Think again. Thanks to CAST's 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. For a full list of features download our new [CAST XFP BROCHURE](#)



More Information

PROTOCOL FEATURES: '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. **PANEL FEATURES:** • 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 switch mode. • Adjustable contamination levels. • Earth fault monitoring. • Combined keypad / keyswitch entry to Access Levels 2 and 3. • 500 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

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| Approvals/certifications | LPCB certified to EN54-2 & 4 and Kiwa Telefication certified to EN54-13 |
| 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 | 1.4A @ 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 | 450mA (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 | 6800Ω 5% Tol. 0/25W (blue, grey, red, gold). |
| Max. sounder output current | 400mA. |
| 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 molex 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; Disblement; Test; Silenced; General Fault |
| Connections | Fixed, largest acceptable conductor size 1mm ² . |
| Expansion connections | 2-wire RS485 non-redundant network/repeater connection available via optional XFP761 network card. Max. 8 mains per network (Limit 1KM.) or 8 repeaters per non-networked main. |
| Product dimensions (mm) | 380 W x 235 H x D 96mm (hole required for flush mounting = 367 W x 220 H x 75 D mm. No bezel required). |
| 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%. |