XFP 1 Loop 32 Zone Addressable Fire Panel (C-TEC CAST protocol)
Part No. XFP501/CA

Overview

C-TEC's tried and trusted XFP one loop 32 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 robust, 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 (automaic via the panel or manually via a handheld programmer/device tester), it is one of the most powerful one 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. Key features include: • 255 devices per loop. • Autonomous decision-making for faster response times. • 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. • High-speed data transmission and robust data transfer. • Geographical location of short and open circuit faults. **PANEL FEATURES:** • Certified to EN54-2/4 by the Loss Prevention Certification Board (LPCB) and EN54-13 by Kiwa Telefication. • 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 PSU. • Earth fault monitoring. • Combined keypad / keyswitch entry to Access Levels 2 and 3. •

Intuitive PC programming softare. • Up to 8 XFP main panels (any variant) can be connected onto a two-wire RS485 non-redundant network. Alternatively, up to 8 XFP repeaters can be connected to any non-networked main panel • FULL compatibility with our ENVISION Cloud-based Remote Access, Data Management, Commissioning & Maintenance Software, • Designed and manufactured in the UK.

Technical Specifications

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	680mA maximum.
Internal power supply	27Vdc nominal.
Total output current limited to	3A @ 230Vac (Imax.A 250mA; Imin. 70mA).
Quiescent current	80mA (loop unloaded).
Max battery size and type	2 x 12V 7Ah 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; 32 Zonal LEDs, General Fire; Energised; Pre-Alarm; Remote Output Activated; Remote Output Disabled; Accessed; Disablement; Test; Silenced; General Fault; Syst
Connections	Fixed, largest acceptable conductor size 1mm2.
Expansion connections	2-wire RS485 non-redundant network/repeater connection available via optional AFP711 network card. Max. 8 mains per network or 8 repeaters per non-networked main. Limit 1KM (main panel network) or
Product dimensions (mm)	410 W x 250 H x 80 D mm (base); 439 W x 274 H x 7 D mm (lid). Hole required for semi-flush mounting = 412 W x 255 H x 50 D mm (requires XFP385 bezel).
Construction & finish	Metal.
IP Rating	IP30.
Weight	4.5kg (no batteries).
Operating conditions/temperature	-5ºC to +40ºC. Max relative humidity: 95%.