Firetec 4-wire fire panels

Traditionally, conventional fire systems have been wired as '4-wire' installations, where the detection and alarm devices are wired separately from the panel. This does give some integral protection where the alarm circuit would not be affected by a fault on the detection side.

Firetec is a conventional (non-addressable) fire detection panel that is suited for fire detection coverage in smaller premises, such as offices and shops. The panel is configured to operate with '4-wire' detection and alarm devices and is available as a standalone panel for 1, 2, 4 or 8 zones of fire cover.

Firetec panels are designed to comply with the European Standard EN54 Parts 2 and 4 and are suitable for BS 5839-1:2002 and BS 5839-6:2004 installations.

Panels are supplied as a complete package, with all end of line devices, batteries and a logbook included.

Benefits and features

The panel is easy to install and comes with a wide range of features for the user and maintenance engineer.

The panel enclosure is shaped with gentle curves and clean lines to fit in with surrounding décor.

Comprehensive zone coverage:
Available in 1, 2, 4 or 8 zone models.

Zone capacity:
Nominally 25 devices per zone.

Standby duration:
48 hours

Walk test:
1 man operation

Display and user interface:
Indicators for information, fire, fault and 'fire & fault'

Security coded push button entry:
Status can be checked via level 1. Subsequent levels are password protected for the authorised user and engineer respectively

Programmability:
A number of features are available including 'latching/unlatching zones', 'delays to alarm activation', 'monitored input' (which can be on or off). Programmability is detailed in the specification table.

Outputs:
A set of output facilities for Alarm, Volt-free alarm and TTL fault

STANDARD ORDER CODE	DESCRIPTION
FTEP1	Firetec 1 Zone Panel
FTEP2	Firetec 2 Zone Panel
FTEP4	Firetec 4 Zone Panel
FTEP8	Firetec 8 Zone Panel
ACCESSORIES	
FTE-EOL-KIT	End of Line Component Kit
FTE-BG	Semi-recessing bezel grey
FTE-SPARES	Firetec Spares Pack

Secure panel operation: Key switch activation option

For installations where it is necessary to secure the panel from interference, a key switch option is available, which enables or disables the control buttons on the front fascia. To order this option a suffix KS should be added to the standard product code.

OPTION	
Suffix KS	Optional security keyswitch for Firetec panels

Display & user interface

The Firetec 4-wire panel includes a clear, easy to reference push button and LED display capable of providing the user with all the necessary information to determine fire, fault or 'fire and fault' within a particular zone. 5 buttons are included on the front of the panel which can be used to access the following functions:

- Silence alarms or enable/disable zones
- Silence buzzer
- User zone and sounder isolation
- Lamp test
- Walk and alarm test facility
- Reset function

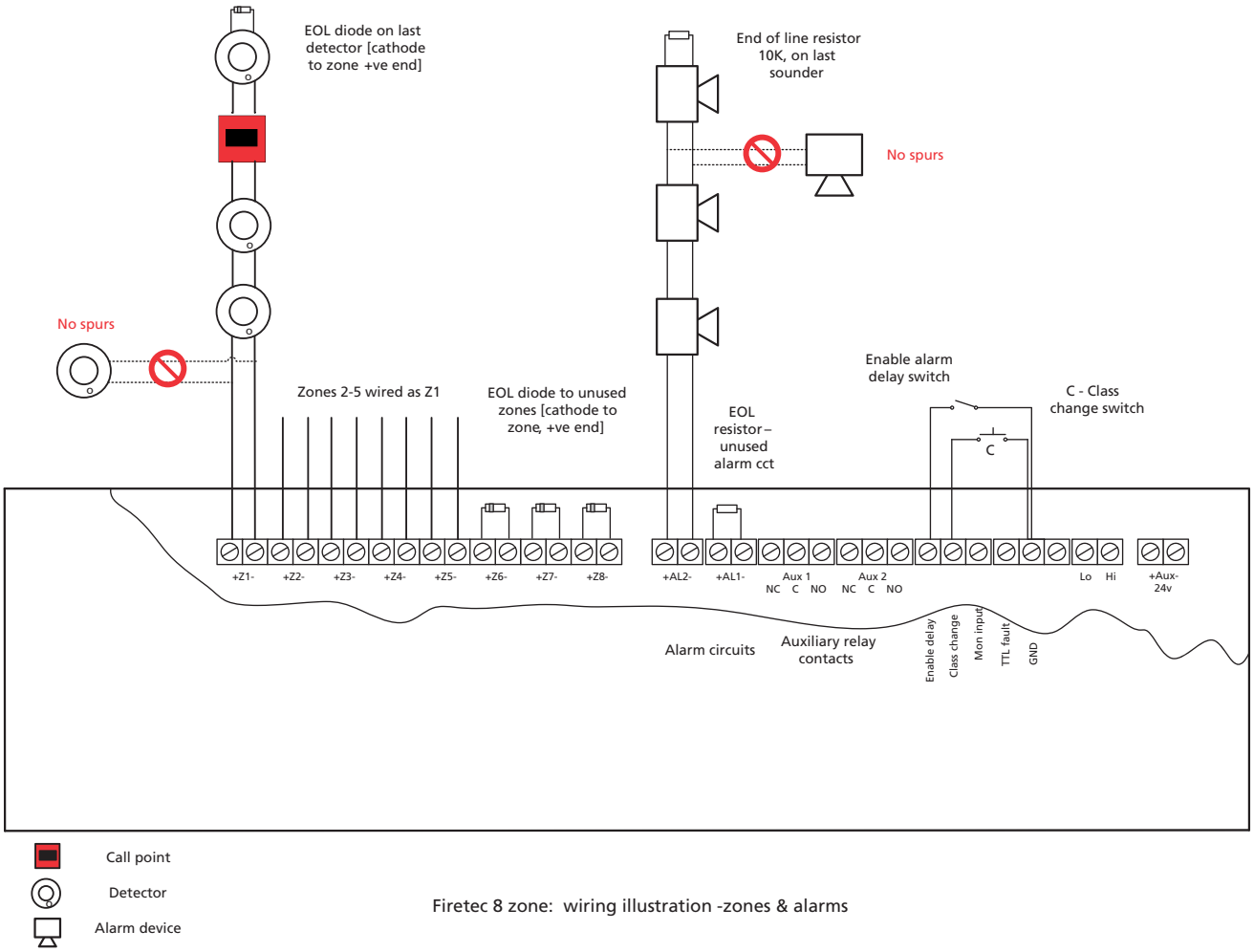
Indicator details

The panel includes an LED system to indicate fault, fire and 'fire & fault', whereby specific panel LEDs will illuminate or flash to establish the zone affected.

The panel also features indicator LEDs which advise the current state of the fire detection system, to highlight system, earth, or supply faults, system disabled or test status, and alarm silenced mode.

Connection diagram

The diagram below illustrates an 8 zone Firetec panel connected to detectors, alarms, and call points.



Firetec 8 zone: wiring illustration -zones & alarms

Firetec conventional, 4-wire panel technical specification

PRODUCT ORDER CODE	FTEP1	FTEP2	FTEP4	FTEP8
Zones of Fire Protection	1	2	4	8
Detectors per zone	25			
Alarm Lines	2 Alarm circuits per panel each rated @ 24Vdc 0.5A max. Panel total is 0.5A		2 Alarm circuits per panel each rated @ 24Vdc 1A max. Panel total is 1A	
	Each sounder circuit protected by a resettable fuse – resets when fault is removed			
	Expandable to 8 circuits in groups of 4 with 4 way alarm extender board			
Power supply:				
Supply Fault Monitoring	230Vac +10% -6%, 50Hz (mains fuse: 20mm, 240Vac 1A High rupture capacity)			
Supply Fault Monitoring	Mains missing – battery missing – battery charger fault			
Battery	1 x 12V 7AH VRLA (valve regulated lead acid) battery			
Battery charger	Battery charger is temperature compensated			
Battery deep discharge protection	Battery is deep discharge protected (cut off at approx. 10.5V)			
Battery fuse protection	Battery protected by resettable fuse – resets when fault is removed			
Battery Standby [up to 4z, then 8z]	72 hours with 20 detectors per zone and 30 mins of 0.75A alarm load			48 hours with 20 detectors per zone and 30 mins of 1A alarm
	For more details refer to technical sales for standby calculations			
Auxiliary output	24Vdc rated 250mA protected by resettable fuse – resets when fault is removed			
Auxiliary relay	2 Sets of volt-free contacts rated 30Vdc @2A – activated during a fire condition when the alarm circuits are activated			
Panel controls & indicators:				
Controls	5 push buttons (with coded entry access)			
Indicators	27 LED indicators for fire, fault or fire and fault			
Construction:	Moulded polycarbonate plastic fascia and back box in cool grey			
Dimensions hwd (mm)	263 x 337 x 90			
Weight (Kg), without battery	2.55			
Cable requirements	To comply with the recommendations of BS 5839-1:2002, section 26 for cables, wiring and other interconnections			
Detector & call point compatibility	* Compatible with Emergi-Lite Orbis smoke and heat detectors with diode base. * Compatible with FAP6 smoke and heat detectors with diode base. * Compatible with 220 – 680 Ohm Manual Call Points (MCP).			
Programmability	Zones individually programmed as latching or unlatching fire conditions Zones individually programmed as 470 Ohm or short circuit fire detection Class change can be programmed to illuminate 'general fire' led when activated. Delay of 1-10 mins to alarms activating in a fire condition – this works in congunction with Enable delay' input. 'Enable delay' can also be used as a 'day switch/input.'			
Class Change	Connect CC to Gnd terminal to activate sounders			
Fault Monitoring	Zone: Short circuit & open circuit/detector removed monitoring using end of line device Alarm: Short circuit & open circuit using end of line resistor			
Fault Output	TTL fault output: Active (5Vdc) when no faults are present – fail safe to off			
Additional options:				
FTEP-BG	Recessing bezel kit			