

FireBeta XT+

Multi Area Extinguishant Control Panel



The FireBeta XT+ range combines feature rich, conventional fire detection from two to eight zones with up to four highly configurable extinguishing control modules to provide an integrated control solution for multi-area extinguishing systems.

The EN54-2/4 compliant fire detection module connects to the EN12094-1 compliant extinguishant control modules via a serial link which allows secure, bi-directional transfer of data between the two.

The fire detection part of the system has many, easily accessed configuration options and compatibility with a wide range of detection devices.

The FireBeta XT+ extinguishing modules set a new benchmark for extinguishing control panels.

Each module is controlled by its own powerful microcontroller bringing unparalleled intelligence and versatility to multi area extinguishing systems for the first time.

FireBeta XT+ modules have inputs and outputs to cover all system requirements including individual,

monitored first and second stage alarms and dual extinguishing outputs.

The extinguishing outputs can be configured to operate together or as main and reserve for essential back up following a discharge. They can also be individually calibrated to provide true open and short circuit monitoring through pyrotechnic actuators or a wide range of solenoids.

The simple construction of FireBeta XT+ control panels utilises removable bridge plates for mounting all electronic assemblies. These bridge plates bring the terminals to the front of the enclosure providing easy access.

The outer door may be removed to further improve access by withdrawing the easily accessible hinge pins. This ensures clear access for wiring and protection of the electronic assemblies during installation. Multiple knockouts in the top, bottom and back and sides of the enclosure provide ample options for cable entries.

FireBeta XT+ Key Features

- 4 or 8 detection zones
- 1 to 4 extinguishant areas
- Dual extinguishant outputs per area (configurable as Main/Reserve)
- First and second stage sounder outputs per area
- First and second stage volt free changeover contacts per area
- Released volt free contact per area
- Fault volt free contact per area
- Programmable extinguishant delays
- Programmable output duration extract fan control
- Countdown indicator shows time until release in seconds
- Mode select and manual release controls per area
- Monitored remote manual release input
- Monitored remote hold input
- Monitored remote mode select (door interlock) input
- Monitored remote released pressure switch input
- Monitored remote low pressure switch input
- Serial connection for FireBeta XT S1 status indicators and ancillary boards



FireBeta XT+



FireBeta XT SI Status Indicators

To complement the FireBeta XT+, a range of Status Indicators are available. Up to seven Status Indicators can be connected to each XT+ Extinguishing Module via a serial bus. Status Indicators require just a four core cable for transmission of data and power. Status units are supervised and the FireBeta XT+ panel will indicate a fault condition should any unit become disconnected.

Status Indicators are housed in attractive enclosures 186 x 132 x 50mm, and finished to match the FireBeta XT+ control panel.

Versions are available with mode select keyswitch and manual release control. All versions are also available in weatherproof enclosures.

All Status Indicators have a seven segment LED display which shows the time remaining to extinguishant discharge.

Status Indicators

- Manual only
- Auto/manual
- Hold operated
- Disabled
- Imminent
- Released
- Fire Zone 1*
- Fire Zone 2*
- Fire Zone 3*
- Fault*

* Included on 10 LED Status Indicators

FireBeta XT Ancillary Board

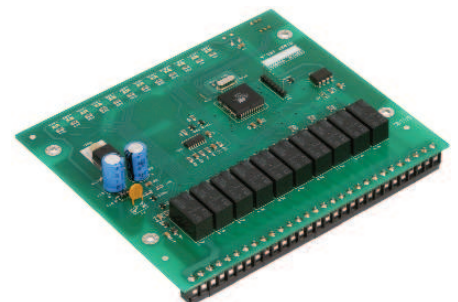
The FireBeta XT Ancillary Board fulfils the requirements to extend signals from the extinguishing system for additional plant control or other signalling applications, such as BMS system interface or house fire alarm systems.

Up to seven Ancillary Boards can be connected to the Status Indicator serial bus to provide distributed control and signalling at multiple locations if required.

Each output of the Ancillary Board has an LED which indicates operation.

The FireBeta XT Ancillary Board contains volt-free changeover contacts for signalling the following:

- Zone 1 fire
- Zone 2 fire
- Zone 3 fire
- Manual only mode
- Disablement active
- Released
- Activated
- Manual release operated
- Extract fan operated
- Hold activated



FireBeta XT+



Item	Electrical Rating	Comment
Mains Supply	230 AC, 50Hz + 10%- 15% (100 watt maximum)	Standard European Mains
Mains supply fuse	1.6 Amp (F1.6A L250V)	Replace only with similar type
Power supply rating (1 & 2 area units)	3 Amp total including battery charge 28V +/- 2V	
Power supply rating (3 * 4 area units)	4 Amp total including battery charge 28V +/- 2V	
Maximum ripple current	200 millivolts	
Battery charge voltage	27.6VDC nominal (temperature compensated)	
Battery charge current	0.7A maximum	
Battery fuse	20 mm, 3.15A glass	Replace only with similar type
Current draw in mains fail condition	54 milliamps per module	With Buzzer sounding
Max current draw from batteries	3A (4 + 1, 4 + 2, 8 + 2) 4 A (8 + 3, 8 + 4)	
FireBeta XT+ extinguishing module Aux 24V output	Fused at 500mA with electronic fuse - 1 per extinguishant area	
FireBeta XT+ detection module Aux 24V output	Fused at 2.5A - not available to user	
1st and 2nd stage sounder outputs	21 to 28V DC fused at 1A with electronic fuse	
Fault relay contact rating	5 to 30V DC 1A Amp maximum for each	Maximum ratings not to be exceeded
Fire relay contact rating	5 to 30V DC 1A Amp maximum for each	Maximum ratings not to be exceeded
First stage contact rating	5 to 30V DC 1A Amp maximum for each	Maximum ratings not to be exceeded
Second stage contact rating	5 to 30V DC 1A Amp maximum for each	Maximum ratings not to be exceeded
Extract contract rating	5 to 30V DC 1A Amp maximum for each	Maximum ratings not to be exceeded
Terminal capacity	0.5mm ² to 2.5mm ² solid or standard wire	
Number of detectors per zone	Dependent on type = typically 20	
Number of sounders per circuit	Dependent on type and current consumption - typically 20+	
Detection circuit end of line	6K8 +/- 5% ½ watt resistor	Supplied in terminals
Monitored input end of line	6K8 +/- 5% watt resistor	Supplied in terminals
Sounder circuit end of line	10K +/- 5% ¼ watt resistor	Supplied in terminals
Extinguishant output end of line	1N4004 Diode	Supplied in terminals
No. of detection circuits	Two to eight. 21 to 28V DC	Dependent on model
No. of sounder circuits	Dependent on model 21 to 28V DC	
Extinguishant release output	21 to 28V DC. Fused at 1 Amp	1 Amp maximum load for 5 minutes or 3 Amps for 20 milliseconds
Extinguishant release delay	Adjustable 0 to 60 seconds (+/- 10%)	5 second steps
Extinguishant release duration	Adjustable 60 to 300 seconds	5 second steps
SIL, AL, FLT, RST inputs	Switched -ve, min resistance 0 ohms, max resistance 100 ohms	Only to be used with Aux RØV terminal
Zone normal threshold (Allowable EOL)	10K ohm to 2K ohm	Use 6K8 EOL resistor
Detector alarm threshold	1K ohms to 390 ohms	Nominal trigger resistance 470 ohms
Call point alarm threshold	370 ohms to 150 ohms	Nominal trigger resistance 270 ohms
Short circuit threshold	130 ohms to 0 ohms	
Head removal condition	15.5 to 17.5 volts	Shottky diode base
Cabling	FP200 or equivalent (max capacitance 1µ max inductance 1mH)	Metal cable glands must be used
Monitored inputs normal threshold (allowable EOL)	10K ohm to 20K ohm	
Monitored inputs alarm threshold	2K ohms to 150 ohms +/- 5%	
Monitored inputs short circuit threshold	140 ohms to 0 ohms +/- 5%	
Status Indicator/Ancillary Board Connection	Two wire RS485 connection (E1A-485 specification)	Maximum 7 units per extinguishing area
Status Indicator power output	21 to 28V DC, Fused at 500mA with electronic fuse	300 mA maximum load

Ordering Information

Description	Dimensions (mm)	Part Number
FireBeta XT+ (4 + 1)	385W x 520H x 110D	23911-K087
FireBeta XT+ (4 + 2)	385W x 520H x 110D	23911-K085
FireBeta XT+ (8 + 2)	385W x 520H x 110D	23911-K088
FireBeta XT+ (8 + 3)	385W x 700H x 110D	23911-K089
FireBeta XT+ (8 + 4)	385W x 700H x 110D	23911-K090
Firebeta XT Ancillary PCB	155W x 136H	23911-K070
Firebeta XT 6 SI (Status Indicator Unit)	186W x 132H x 59D	23911-K071
Firebeta XT 6 SI flush mount	210W x 156H x 50D	23911-K072
Firebeta XT 6 SI with keyswitch	186W x 132H x 59D	23911-K073
Firebeta XT 6 SI flush mount with keyswitch	210W x 156H x 50D	23911-K074
Firebeta XT 6 SI with keyswitch & manual release	186W x 132H x 59D	23911-K075
Firebeta XT 6 SI flush mount with keyswitch & manual release	210W x 156H x 50D	23911-K076
Firebeta XT 6 SI weatherproof	256W x 169H x 76D	23911-K079
Firebeta XT 6 SI weatherproof with keyswitch	256W x 169H x 76D	23911-K080
Firebeta XT 6 SI weatherproof with keyswitch & manual release	256W x 169H x 76D	23911-K081

Notes: *FireBeta XT + Panel and Status Indicators are IP30 rated
Weatherproof Status Indicators are IP65 rated*



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Kidde Fire Protection operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Kidde Fire Protection should be contacted to ensure that the current issues of all technical data sheets are used.

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