

The following matrix shows the features available on all Sigma XT extinguishing panels.

Feature	Comments
Configurable Third Zone	May contribute to extinguishant release
Serial Status Connection	Up to seven status units or ancillary boards
Timer Display	Shows time remaining until discharge
Low Pressure Input And Indicator	Dedicated input
Buzzer Silence Button	
Programmable Coincidence Connection	From any 2 or any 2 from 3 zones
Programmable For 'Single Knock'	Any one zone only
Programmable Delay Timer Timers (Including Zero Delay)	In accordance with EN12094-1
Programmable Duration Timer	In accordance with EN12094-1
Programmable For I.S.Barriers	Programmable zone thresholds
Programmable Non-Latching Zones	For receiving signals from other systems
Programmable For Short Circuit Fire On Zones	For connection to older, unmonitored installations
Programmable 1st Stage Sounder Delay	For fire verification before alerting house system
Programmable Zone Input Delay (30 Seconds)	To filter transient signals (sprinkler flow)
Extract Fan Control as Standard	Toggle on/off via enter button
Hold Activated Indicator	Dedicated LED
Disablement Indicators	Dedicated LED
Walk Test Mode	Detectors automatically reset after a few seconds
"Released" Relay Function	Local fire relay programmable
Earth Fault Monitoring	
Low Battery Monitoring	
Two First Stage Sounder Outputs	Fused at 0.5A
One Second Stage Sounder Output	Fused at 0.5A
First Stage Relay Contact	Volt free changeover
Second Stage Relay Contact	Volt free changeover
Fire Relay Contact	Volt free changeover
Fault Relay Contact	Volt free changeover
Local Alarm Relay Contact	Volt free changeover
Remote Control Inputs (Silence Alarm, Sound Alarm, Reset)	Activated by volt free contact
Auxiliary 24V Output	Configurable as pulsing and removed on reset (0.5A)
Monitored Mode Select Input	Auto/Manual
Monitored Manual Release Input	
Monitored Hold Input	
Monitored Extinguishant Output	Fused at 1A
Monitored 'Released' Pressure Switch Input	
Status Unit Power Output	Fused at 0.5A
Charger For Up To 7Ah Batteries	
Mode Select Keyswitch On Front Panel	Standard 901 key
Manual Release On Front Panel	Lift flap, push button

## Sigma XT technical specifications chart.

Item	Electrical Rating	Comment
Mains supply	230V AC, 50Hz +10% – 15% (100 Watts maximum)	Standard European mains conn.
Mains supply fuse	1.6 Amp ( F1.6A L250V)	Replace only with similar type
Power supply rating	3 Amps total including battery charge 28V +/- 2V	
Maximum ripple current	200 millivolts	
Battery type (Yuasa NP)	Two 12 Volt sealed lead acid in series	7Ah maximum
Battery charge voltage	27.6VDC nominal (temperature compensated)	Modulated DC
Battery charge current	0.7A maximum	Modulated DC
Battery fuse	20mm, 3.15A glass	Replace only with the same type
Current draw in mains fail condition	0.095 Amps	With buzzer sounding
Max. current draw from batteries	3 Amps	With main power source disconn.
ROV output	Fused at 500mA with electronic fuse	200 mA maximum load
Sounder outputs	21 to 28V DC Fused at 500mA with electronic fuse	1.6 Amp total load over all circuits Voltage reversing DC
Fault relay contact rating	5 to 30VDC 1A Amp maximum for each	Volt free changeover contact Maximum ratings not to be exceeded
Fire relay contact rating	5 to 30VDC 1A Amp maximum for each	Volt free changeover contact Maximum ratings not to be exceeded
Local fire relay contact rating	5 to 30VDC 1A Amp maximum for each	Volt free changeover contact Maximum ratings not to be exceeded
First stage contact rating	5 to 30VDC 1A Amp maximum for each	Volt free changeover contact Maximum ratings not to be exceeded
Second stage contact rating	5 to 30VDC 1A Amp maximum for each	Volt free changeover contact Maximum ratings not to be exceeded
Extract contact rating	5 to 30VDC 1A Amp maximum for each	Volt free changeover contact Maximum ratings not to be exceeded
Zone quiescent current	0mA minimum, 2mA maximum	
Terminal capacity	0.5mm <sup>2</sup> to 2.5mm <sup>2</sup> solid or stranded wire	
Number of detectors per zone	Dependent on type	
Number of sounders per circuit	Dependent on type and current consumption	
Detection circuit end of line	6K8 +/- 5% ½ Watt resistor	Supplied in terminals
Monitored input end of line	6K8 +/- 5% ½ 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	Three. 21 to 28V DC	
No. of sounder circuits	Three. 21 to 28V DC	2 x first stage, 1 x second stage
Extinguishant release output	21 to 28V DC. Fused at 1 Amp	1 Amp maximum load – for 5 minutes Voltage reversing DC
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, maximum resistance 100 Ohms	Only to be used with Aux ROV terminal (Switched DC)
Zone normal threshold	8K ohm to 1K ohm +/- 5%	Use 6K8 end of line resistor
Detector alarm threshold	999 ohms to 400 ohms +/- 5%	Nominal trigger resistance 470 ohms
Call point alarm threshold	399 ohms to 100 ohms +/- 5%	Nominal trigger resistance 270 ohms
Short circuit threshold	99 ohms to 0 ohms +/- 5%	
Head removal condition	15.5 to 17.5 volts +/- 5%	2-wire detector base or schottky diode base
Cabling	FP200 or equivalent (maximum capacitance 1uF maximum inductance 1 mH)	Metal cable glands must be used
Monitored inputs normal threshold	8K ohm to 1K ohm +/- 5%	
Monitored inputs alarm threshold	999 ohms to 400 ohms +/- 5%	
Monitored inputs Short circuit threshold	99 ohms to 0 ohms +/- 5%	
Status unit/Ancillary board connection	Two wire RS485 connection (EIA-485 specification) (FP200 max. length 1200m)	Maximum of 15 units– RS485 data cable (EIA-485 specification)
Status unit power output	21 to 28V DC, Fused at 500mA with electronic fuse	300 mA maximum load

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