Sigma XT Extinguishant Control Panel

Product Overview

Sigma XT control panels are multi-area extinguishant control panels designed to comply with AS7240-2, AS7240-4 Fire Detection and Fire Alarm Systems - Control and Indicating Equipment, and AS1670.5 Special Hazards Systems.

2 to 8 zones of conventional detection.

Each extinguishant panel has a comprehensive set of inputs and outputs and is configurable via a simple programming interface.

All extinguishant areas may have up to 7 warning signs and remote status units serially connected.

Standard Features

* Approved to designed to comply with AS7240-2, AS7240-4 Fire Detection and Fire Alarm Systems - Control and Indicating Equipment, and AS1670.5 Special Hazards Systems.
* 2, 4 or 8 detection zones
* Dual extinguishant outputs for each area (configurable as Main/Reserve)
* First and second stage sounder outputs for each area
* First and second stage volt free changeover contacts for each 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
* Monitored Abort input
* 4 wire connection for remote status units and warning signs.

Product Overview

Extinguishant Status Control Panel

All models provide high brightness, LED indication of Manual Only, Automatic and Manual, Hold Operated, Disabled, Imminent and Released conditions. Models are also available with zonal fire indicators and a common fault indicator.

For systems where local control of the Automatic/ Manual mode and or a manual extinguishant release control are required, units are available with these controls fitted.

Standard Features

- High brightness LEDs
- Detailed indication of the status of the control panel
- Monitored data connection
- Countdown timer shows time remaining until release
- Manual only and Automatic and Manual mode select keyswitch option

ECU-LCS

(Remote Status Unit)

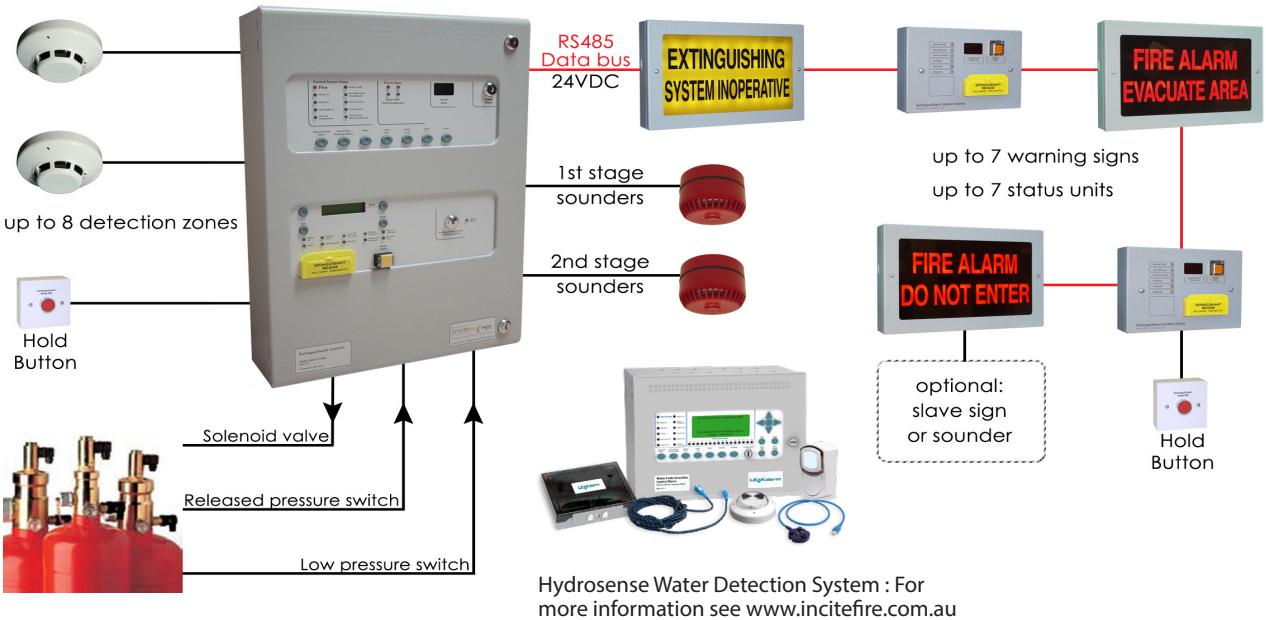
Product Overview

ECU-HS (Extinguishant Hold Off Switch)

Standard Features

- Shrouded red push button to prevent accidental operation
- Fitted with normally open and closed contacts to allow operation with monitored and unmonitored systems.
- Robust all steel enclosure

ECU-HS



Hydrosense Water Detection System : For more information see www.incitefire.com.au

Technical Specifications

• Construction	1.2mm mild sheet steel
• IP Rating	IP30
• Finish	Epoxy powder coated
• Colour - lid & box	BS 00 A 05 grey - fine texture
• Colour - controls plate & labels	RAL 7047 light grey - satin
• Weight	8kg (standard panel)
• Mains supply	230V AC, 50Hz +10% - 15% (100 Watts maximum)
• Mains supply fuse	1.6 Amp (F1.6A L250V)
• Power supply rating	3 Amps 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	20mm, 3.15A glass
• Current draw in mains fail condition	54 milliamps per module
• Sigma XT+ module Aux 24V output	Fused at 500mA with electronic fuse - 1 per extinguishant area
• Sigma CP 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 30VDC 1A Amp maximum for each
• Fire relay contact rating	5 to 30VDC 1A Amp maximum for each
• Local fire relay contact rating	5 to 30VDC 1A Amp maximum for each
• First stage contact rating	5 to 30VDC 1A Amp maximum for each
• Second stage contact rating	5 to 30VDC 1A Amp maximum for each
• Extract contact rating	5 to 30VDC 1A Amp maximum for each
• Zone quiescent current	1.6mA per zone
• Terminal capacity	0.5mm2 to 2.5mm2 solid or stranded wire
• Detection circuit end of line	6K8 +/- 5% ½ Watt resistor
• Monitored input end of line	6K8 +/- 5% ½ Watt resistor
• Sounder circuit end of line	10K +/- 5% ¼ Watt resistor
• Extinguishant output end of line	1N4004 Diode
• No. of detection circuits	Two to eight. 21 to 28V DC
• No. of sounder circuits	Dependent on model 21 to 28V DC
• Extinguishant release output	21 to 28V DC. Fused at 1 Amp
• Extinguishant release delay	Adjustable 0 to 60 seconds (+/- 10%)
• Extinguishant release duration	Adjustable 60 to 300 seconds
• SIL, AL, FLT, RST inputs	Switched -ve, min resistance 0 ohms, max resistance 100 Ohms
• Zone normal threshold (Allowable EOL)	8K ohm to 1K ohm
• Detector alarm threshold	999 ohms to 400 ohms
• Call point alarm threshold	399 ohms to 100 ohms
• Short circuit threshold	99 ohms to 0 ohms
• Head removal condition	15.5 to 17.5 volts
• Cabling	FP200 or equivalent (max capacitance 1uF max inductance 1 mH
• Monitored inputs alarm activate threshold	2K ohms to 150 ohms +/- 5%
• Monitored inputs Short circuit threshold	140 ohms to 0 ohms +/- 5%
• Status unit/Ancillary board connection	Two wire RS485 connection (EIA-485 specification)
• Status unit power output	21 to 28V DC. Fused at 500mA with electronic fuse