

WAITSIA GAS PROJECT STAGE 2

FIREPRO FIRE SUPPRESSION SYSTEM DIESEL GENERATOR

Z-9011, Z-9021, Z-9031

DATA SHEETS

FIRE SUPPRESSION EQUIPMENT

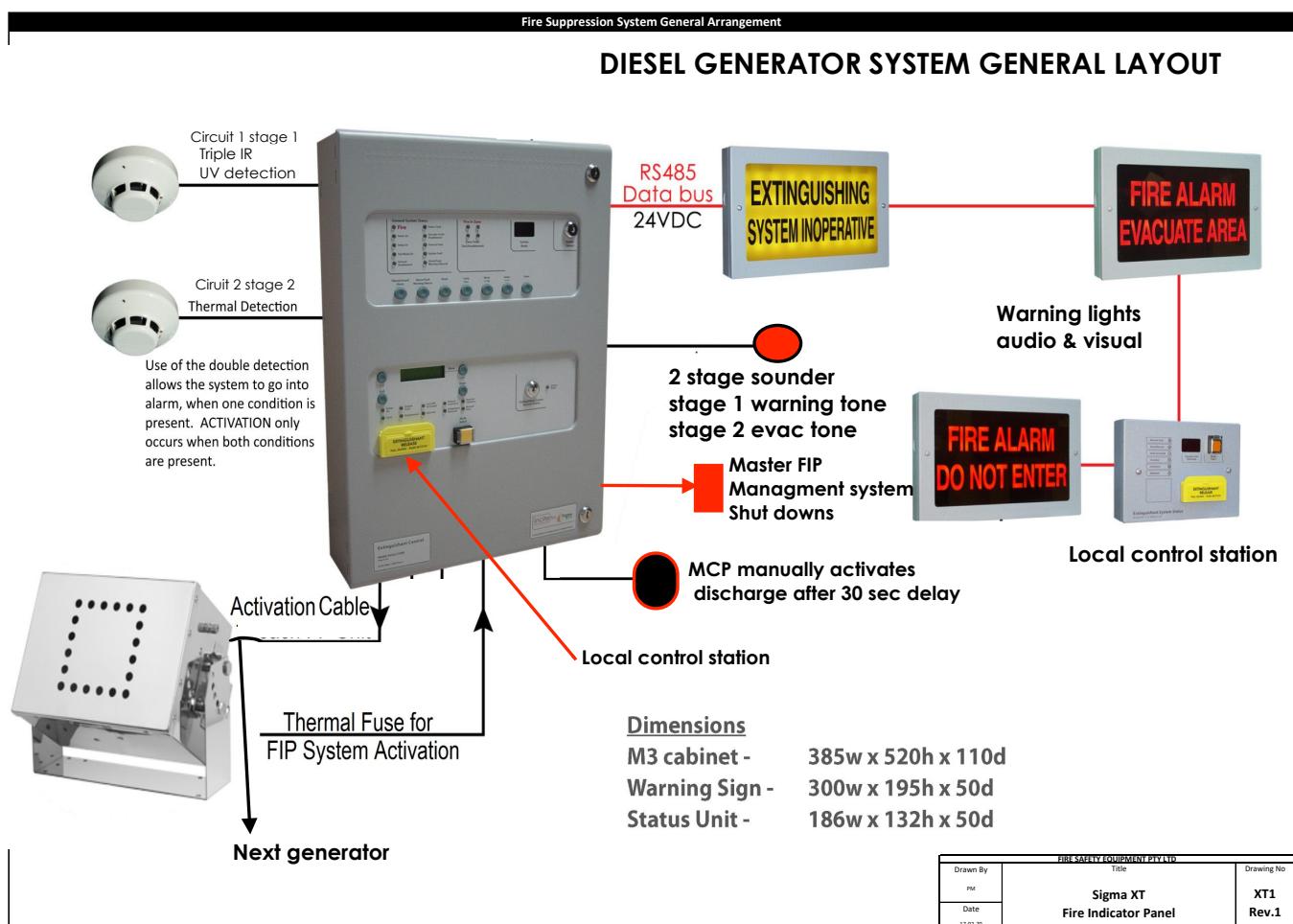


Table of Contents

1.	<i>Baseline Data</i>	2
1.1.	Equipment List	2
2.	<i>Equipment Data Sheets</i>	3
2.1.	SIGMA XT Conventional Fire Control Panel.....	3
2.2.	Local Control Station.....	4
2.3.	FirePro Aerosol Generators.....	5
2.4.	Thermal & Photo optical detection.	9
2.5.	Gas Detection	10
3.	<i>System</i>	18
3.1.	Sounder Strobe DUAL TONE Alert & Evacuate	19
3.2.	Warning Signs	21
3.3.	Traffolyte ID & Warning Signage external	22
3.4.	Cable	23
3.5.	Battery.....	25

1. Baseline Data

1.1. Equipment List

Item	Description	Quantity	Agent/Distributor	Model/Part No.	OEM	Power Supply Rating (A)	Battery Charger Rating (A)	Quiescent Current (mA) per device	Alarm current (mA) per device	Fixed Service Life (years)	Nominated Service Life (years)	Installed to AS 1670.1	Installed to AS 4487	Maintenance Requirements to AS 1851
E-House														
1	Fire Indicator Panel (FIP) - 8 zone	1	Fire Safety Equipment	FP-90811	Hochiki	5	0.7	65	105	NS ⁽¹⁾	10 ⁽²⁾	Y		Section 7 IOM
2	Spectrex Sharp-eye 40/40c-!	2	Fire Safety Equipment	FP-SPECTREX-SHARPEYE	Hoshiki	4-20mA						Y		Section 7 IOM
5	Thermal detector Combined RoR & Fixed Temp.60°C	3	Fire Safety Equipment	FP-94210	Hochiki			8	28	NS ⁽¹⁾	5 ⁽²⁾	Y		Section 7 IOM
6	Sign - System Inoperative	1	Fire Safety Equipment	FP-92400	Incite			20	140	NS ⁽¹⁾	10 ⁽²⁾		Y	Section 7 IOM
7	Sign - Fire Alarm Do Not Enter	2	Fire Safety Equipment	FP-92100	Incite			20	140	NS ⁽¹⁾	10 ⁽²⁾		Y	Section 7 IOM
8	Sign - Fire Alarm Evacuate Area	2	Fire Safety Equipment	FP-92500	Incite			20	140	NS ⁽¹⁾	10 ⁽²⁾		Y	Section 7 IOM
9	Local Control Station/Remote Status Unit	1	Fire Safety Equipment	FP-90901	Incite			33	60	NS ⁽¹⁾	10 ⁽²⁾		Y	Section 7 IOM
10	Thermal fuse	1	Fire Safety Equipment	FP-08825	FSE					NS ⁽¹⁾	10 ⁽²⁾		Y	Section 7 IOM
11	Sirena alert evac warning sounder	3	Fire Safety Equipment	FP-SIR-E-FA-MLINE	FSE				55	NS ⁽¹⁾	10 ⁽²⁾	Y		Section 7 IOM
12	Aerosol Generator – 5700g	3	Fire Safety Equipment	FP-5700S	FSE					15	10 ⁽²⁾		Y	Section 7 IOM
13	Aerosol generator-3000g	1	Fire Safety Equipment	FP-3000S	FSE					15	10		Y	Section 7 IOM
14	Battery – 12v 9Ah	2	Fire Safety Equipment							1	1	Y		Section 7 IOM

Notes

(1) NS - not specified

(2) Estimated as we have no experience in the harsh environment, components generally subjected to regular testing (at least annually)

2. Equipment Data Sheets

2.1. SIGMA XT Conventional Fire Control Panel

FirePro.

Reinventing
Fire Suppression

Sigma XT Extinguisher Control Panel

Rev 1.1



Product Overview

The Sigma XT extinguisher control panel is designed to the requirements of AS7240.0 and ASISO 14520.1

Each extinguishing module has a comprehensive set of inputs and outputs and is configurable via the LCD display and simple menus.

The data bus cabling of the Sigma warning signs and Sigma local control stations, simplifies and minimises cable requirements and maximises monitoring of these devices.

Standard Features

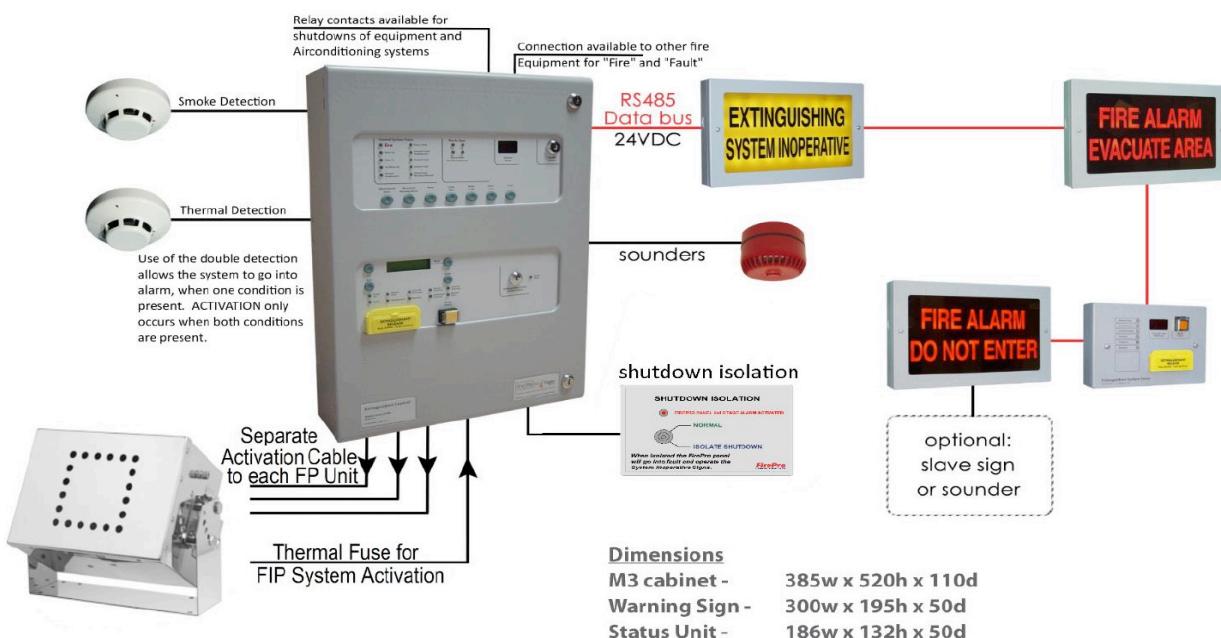
Fully certified to AS 7420.2 and AS7240.4
2-wire and standard versions in 2 or 8 zones
Fully programmable using simple menu

Options

Sounder configuration options
Coincidence input selection
Compatible with wide range of detection devices
Two monitored sounder outputs

Technical Data

Construction	1.2mm mild sheet steel
IP Rating (Standard unit)	IP30
Colour - lid & box	BS 00 A 05 grey - fine texture
Power supply	230V AC (+10%/-15%)
Fault contact rating	30V DC 1 Amp
Local fire contact	30V DC 1 Amp
Fire contact rating	30V DC 1 Amp
Cable capacity	2.5mm ² per terminal
Operating temperature	-5°C to +40°C
Operating humidity	<95% (non condensing)
data connection	RS485 connection (max 1200 m)



FirePro.

Fire suppression systems backed by **research**,
committed to **people** and the **environment**

2.2. Local Control Station

FirePro.

Reinventing
Fire Suppression

FP-90901

Local Control Station

Rev 1.2



Extinguisher Status Local Control Station Product Overview

LED indication of Manual Only, Automatic and Manual, Hold operated, Disabled, Imminent and Released conditions.

Local control of the Automatic/ Manual mode.

Monitored inputs for the remote connection of Automatic/ Manual mode and Hold switches.

A large, LED display which shows a countdown of the time remaining until the extinguishant is released in seconds.

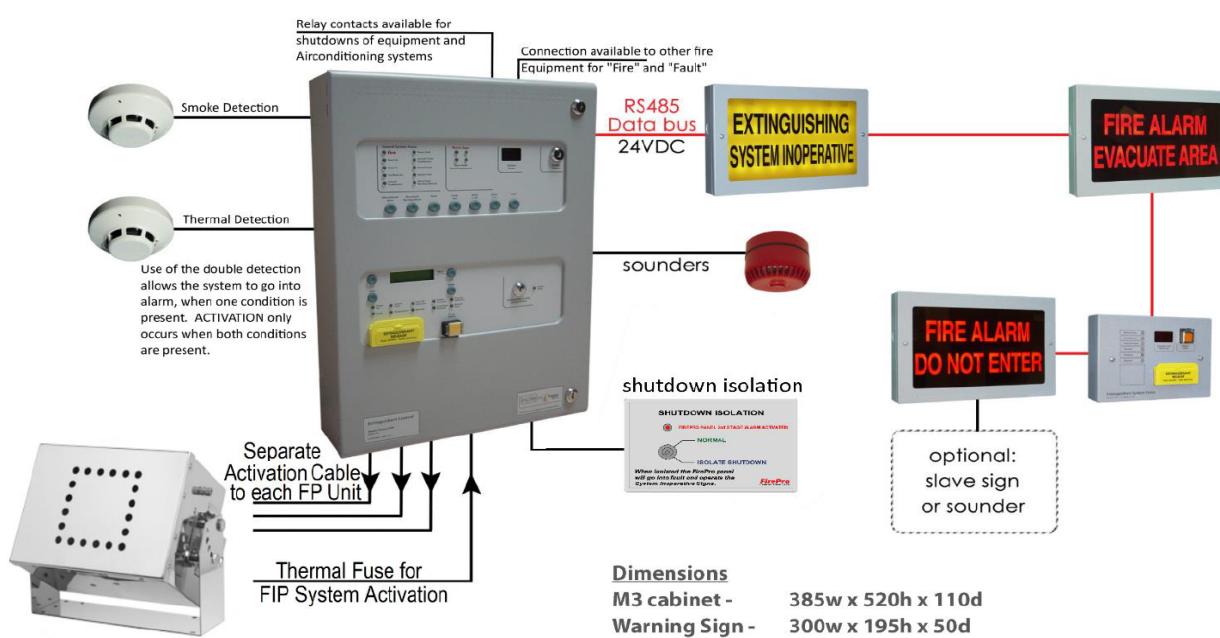
Part No. 90901

Standard Features

- * High brightness LEDs
- * Indication of the status of the control panel
- * Monitored data connection
- * Countdown timer for agent release
- * Manual only and Automatic mode select
- * Four wire connection (data and power)
- * Protected dual action manual release switch
- * Common fault indication with buzzer
- * Robust, high quality enclosure
- * Easy access to terminals
- * Remote Hold input (monitored)
- * Internal fault diagnosis indicators
- * Internal buzzer

Technical Data & Standard References

Construction	1.2mm mild sheet steel
IP Rating (Standard unit)	IP30
Colour - lid & box	BS 00 A 05 grey - fine texture
Weight	1kg (all units)
Power supply	21 to 30 V DC
Maximum current draw	70 mA
Max. number of status units	7
Quiescent current	60 mA
Cable capacity	2.5mm ² per terminal
Monitored inputs end of line resistor	6K8 0.5W Resistor
Monitored inputs normal threshold	8K ohm to 1K ohm
Monitored inputs trigger threshold	700 ohms to 100 ohms
Monitored inputs Short circuit threshold	99 ohms to 0 ohms
data connection	RS485 connection (max 1200 m)
Size	256 x 170 x 60 (mm)

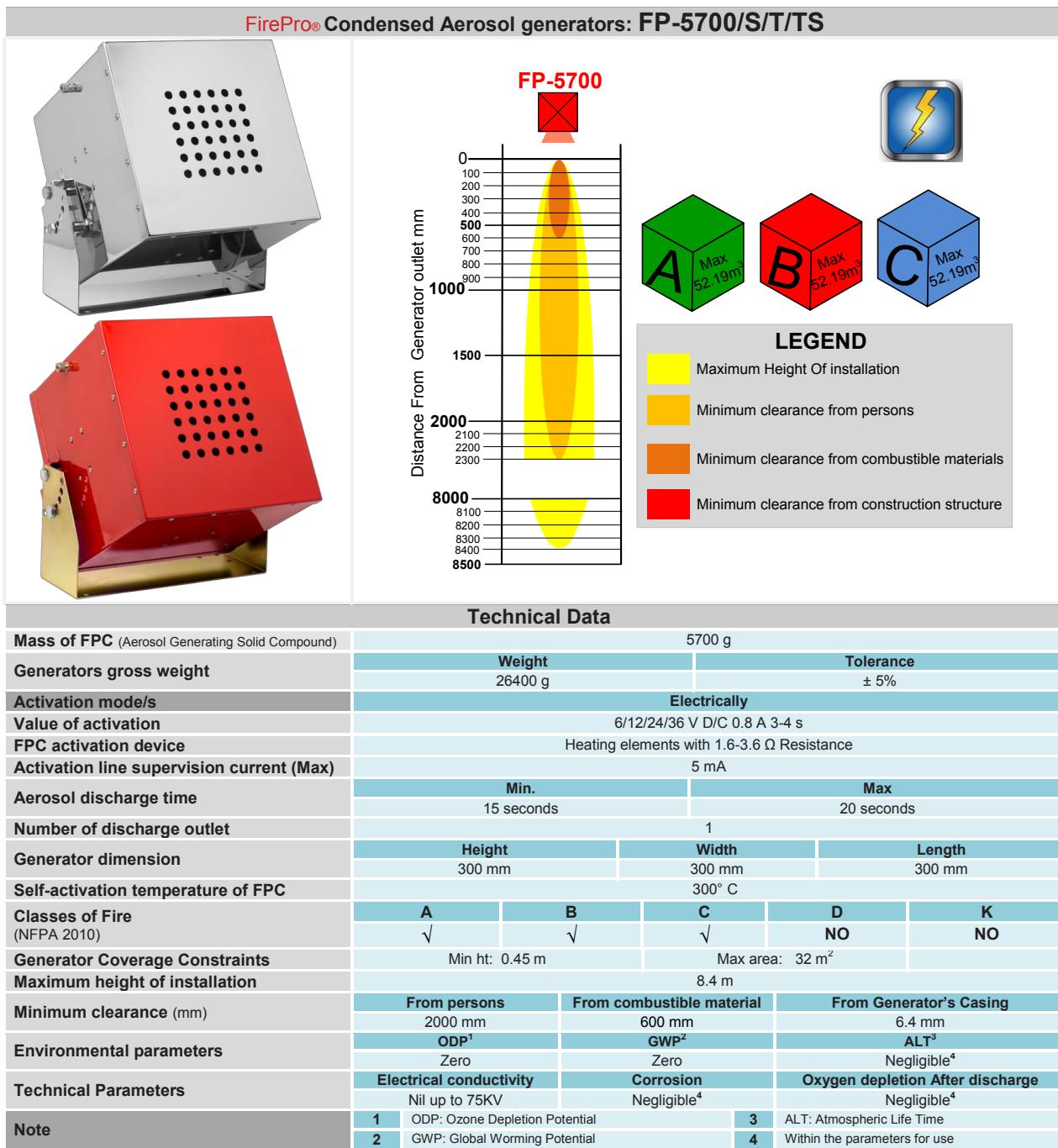


FirePro.

Fire suppression systems backed by **research**, committed to **people** and the **environment**

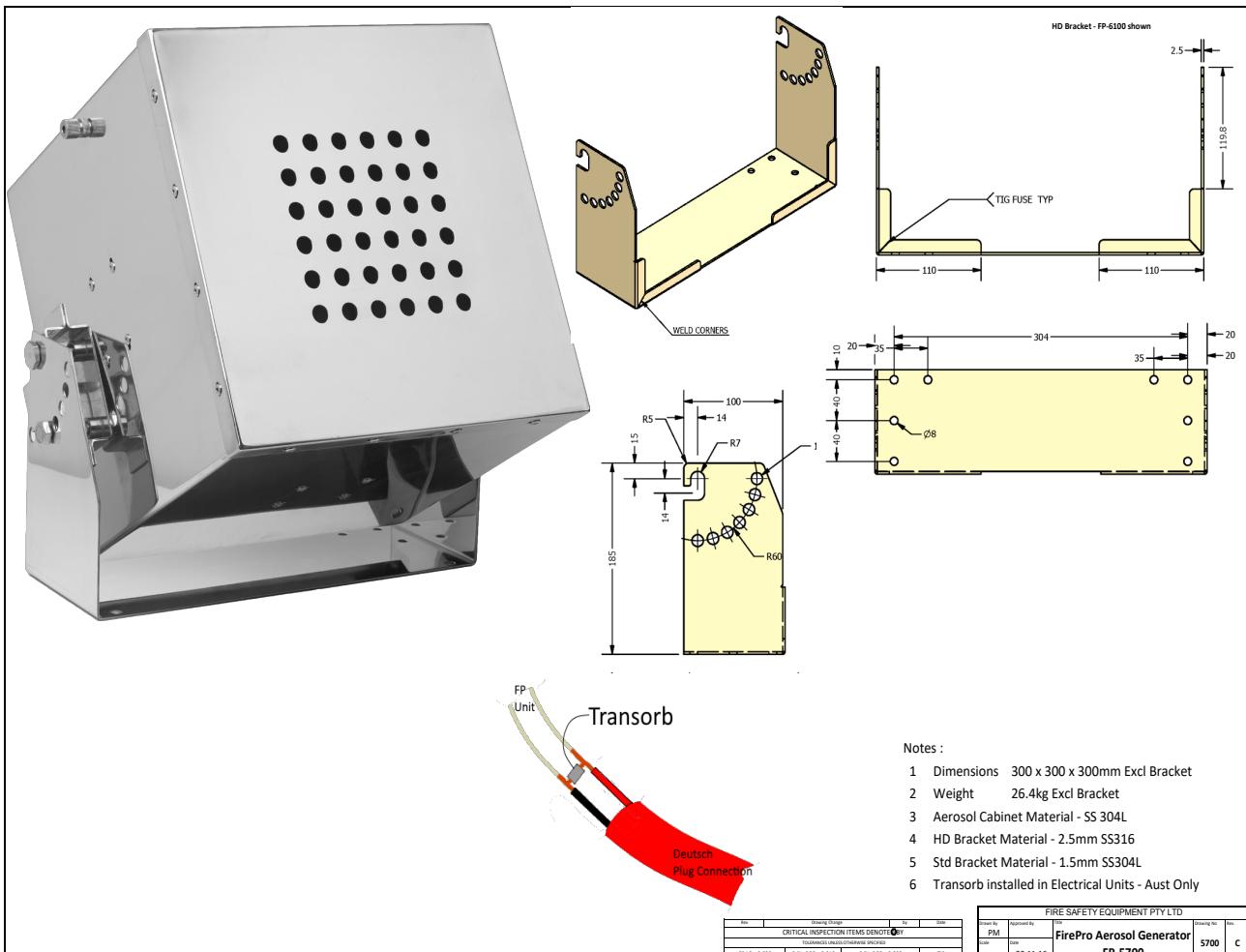
2.3. FirePro Aerosol Generators

- 5700g Generators-

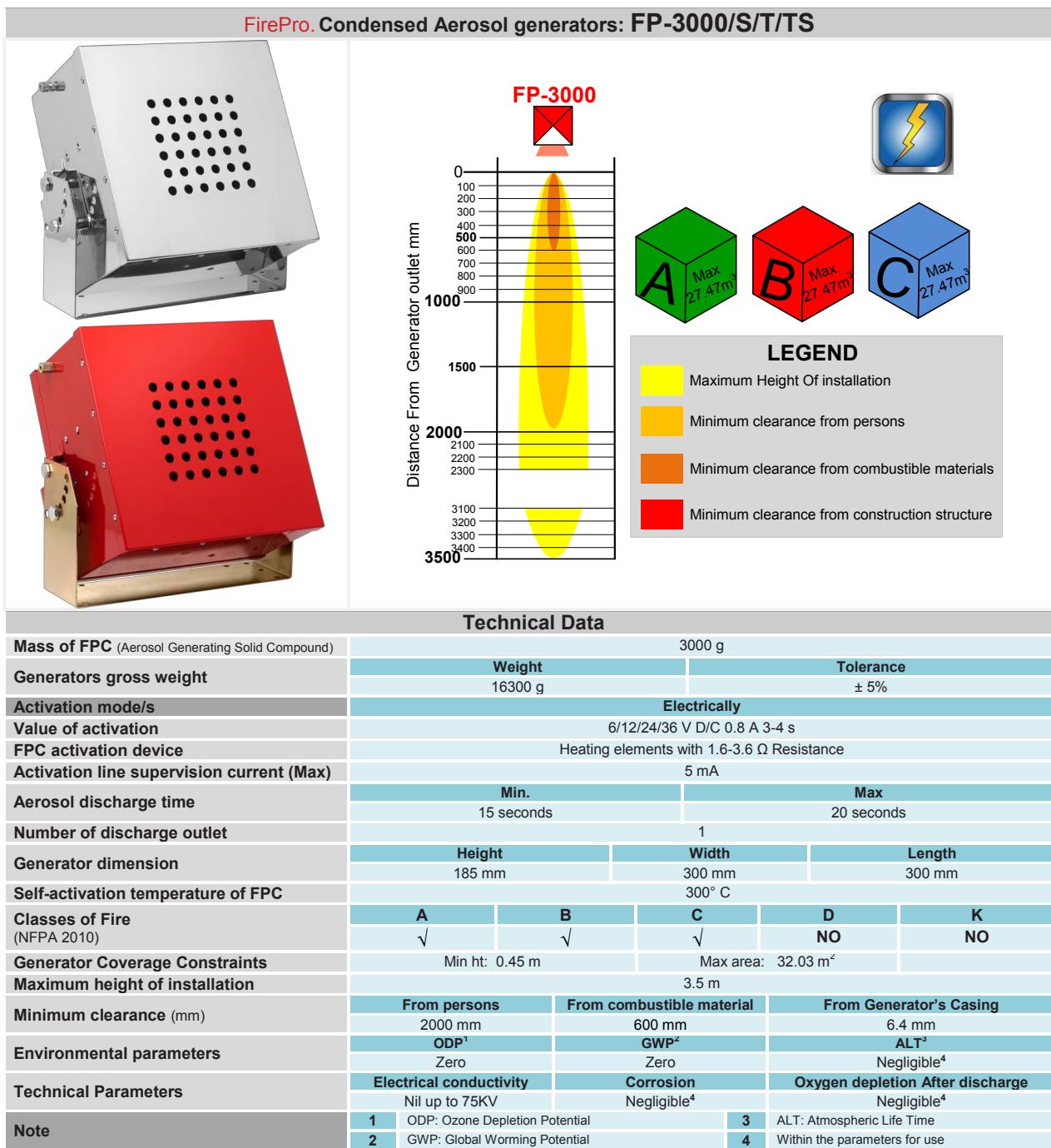


Manufactured by	Master dealers / Distributor	Trade Mark
FirePro Systems Ltd.		FirePro.

Bracket Drawing & Dimensions

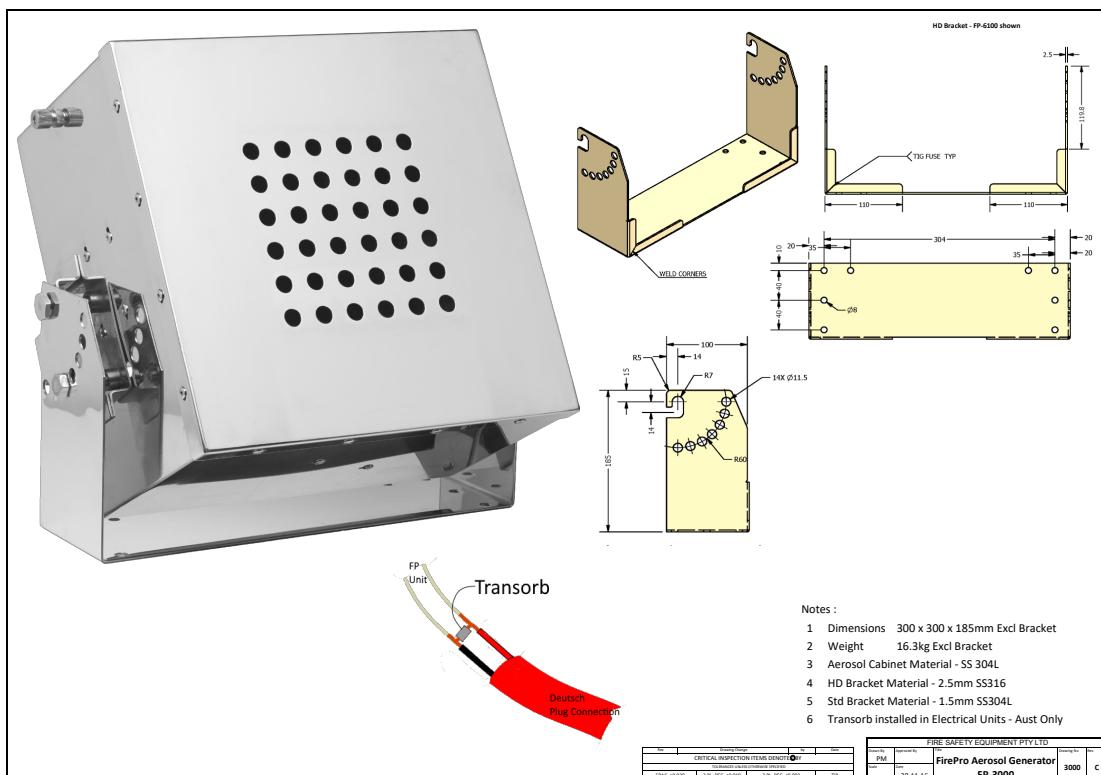


- **FP-3000g Generators –**



Manufactured by	Master dealers / Distributor	Trade Mark
FirePro Systems Ltd.		FirePro

Bracket drawing & Dimensions-



2.4. Thermal & Photo optical detection.

DETECTORS for use with SIGMA FIP



Conventional Combined Rate of Rise & Fixed Temp Heat Detector (60°C) FP-94210

Rate of Rise Heat Detector with a 60°C fixed temperature element using a thermistor and linearising circuit to provide an accurate linear response Heat Detector. Ideal for use where medium ambient temperatures exist, such as drying rooms or where Smoke Detectors are unsuitable because of the presence of steam or cooking fumes such as in a kitchen. (DCD-A3)

Conventional Combined Rate of Rise & Fixed Temp Heat Detector (90°C) FP-94220

Rate of Rise Heat Detector with a 90°C fixed temperature element using a thermistor and linearising circuit to provide an accurate linear response Heat Detector. Ideal for use where medium ambient temperatures exist, such as drying rooms or where Smoke Detectors are unsuitable because of the presence of steam or cooking fumes such as in a kitchen. (DCD-C3)

Conventional Photoelectric Smoke Detector FP-94240

The SLV-AS3 incorporates Hochiki's unique High Performance photoelectric smoke chamber removing the need to use Ionisation Detectors in the majority of applications. This also allows the Detector threshold level to be increased, thereby improving the signal to noise ratio and reducing susceptibility to false alarms.(SLV-AS3)

Detector Base FP-94200

Conventional Detector Mounting Base associated with the CDX Range of Detectors and is fully compatible with the majority of existing conventional fire alarm control panels. It is supplied with square cable clamps for secure and reliable cable termination but the base does not provide line continuity during detector removal, therefore if Call Points are being used then these should be wired onto the zone first. (YNB-R6)

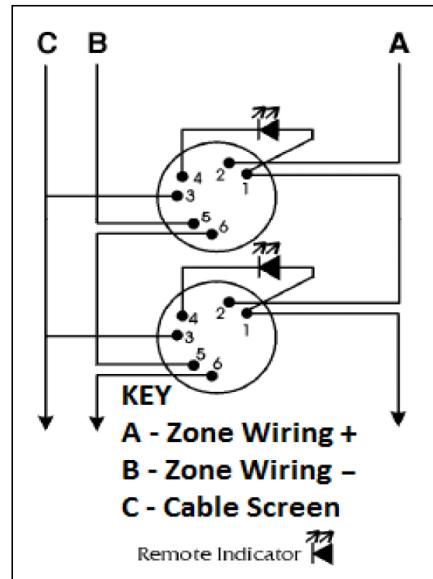


Features :

- Wide voltage range (9.5 ~ 30Vd.c.)
- Remote Indicator output
- Low profile design with one piece outer cover
- Twin fire LED's allow 360° viewing

Specifications

Ordering Code	FP-94210 DCD-A3	FP-94220 DCD-C3	FP-94240 SLV-AS3
Operating Voltage	9.5 - 30Vd.c.		
Quiescent Current (typ)	35µA		
Maximum Current in Alarm	80mA		
Remote Indicator Drive	20mA (max) / 9.5-14mA (typ)		
Maximum Humidity	95%RH - Non Condensing (at 40°C)		
Ingress Protection Rating	IP63	IP42	
Colour / Case Material	White / Polycarbonate	White / ABS	
Weight (g) / Diameter (mm) / Height (mm)	76 / 100 / 38	75/100 / 46	
Compatible Bases/Base Height	FP-92400 (YBN-R6) / 8m		
Base Fixing Centres (mm)	48 ~ 74		
Approvals	AS7240.5	AS7240.5	
	Class CR	Class A1R	



Product Data Sheet
00913-0200-4976, Rev AC
September 2021

Spectrex SharpEye™ 40/40C-I

Multispectrum Quad-Sense™ Flame Detector



The SharpEye 40/40C-I Multispectrum Quad-Sense flame detector is part of the leading, next generation SharpEye 40/40 series.

Featuring enhanced performance, advanced long distance detection of hydrocarbon fires at up to 215 ft (65 m), fast detection in under five seconds, and strengthened reliability, the SharpEye 40/40C-I is based on proven triple infrared (IR3) technology, ensuring high sensitivity with superior immunity to false alarms and surely keeping a SharpEye on your safety.



Features and benefits

Multi-Spectrum Quad-Sense flame detector - integrating four infrared (IR) sensors to further improve differentiation of flame sources from non-flame background radiation.

- Advanced long distance detection of hydrocarbon-based fuel and gas fires at up to 215 ft (65 m)
- Fast detection, under five sec
- Proven false alarm immunity
- Unparalleled reliability - 150,000 hours MTBF
- Wide temperature range:
-40 °F (-40 °C) to 167 °F (75 °C)
- Enhanced durability backed up by with three-year warranty
- Five sensitivity levels, adapting to any application
- Innovative IR Built-In-Test - continuously validating the optical integrity and the electronic circuitry
- Multiple output options for maximum compatibility with standard infrastructures
- Plug and play - factory calibrated for immediate use in any fire detection system
- Universal wiring option for fast ordering process
- Heated optic for impeccable performance in challenging environmental conditions
- Worldwide and regionally certified for hazardous areas
- Performance and reliability approved by recognizable certification bodies
- SIL3 compatible
- Internal log event recorder to analyze past events

Contents

Features and benefits.....	2
Applications.....	3
Ordering information.....	4
Specifications.....	5
Approvals.....	8

Applications

- Oil and gas onshore and offshore installations and pipelines
- Chemical and petrochemical plants
- Storage tank farms
- Aircraft hangars
- Power generation facilities
- Pharmaceutical industry
- Printing industry
- Warehouses
- Automotive industry
- Explosives and munitions
- Waste disposal facilities
- Light industrial

Ordering information

[VIEW PRODUCT >](#)

Model

Code	Description
-I	Quad-Sense™ triple infrared (IR3)

Wiring

Code	Description
-6	Universal

Operating temperature range

Code	Description
4	-40 °F (-40 °C) to 167 °F (75 °C)

Electrical cable entries

Code	Description
1	M25
2	¾-in NPT

Enclosure

Code	Description
A	Aluminum polyurethane painted

Hazardous area approval

Code	Description
B	Inmetro (pending)
F	FM, FMC, Canadian Standardization Association (CSA) for United States and Canada
C	ATEC, IECEx
R	EAC CU TR

Tilt mount

Code	Description
Y	Including tilt mount stainless steel 316
N	Without tilt mount

Protective cover

Code	Description
7	ABS plastic
8	Stainless steel 316

Accessories

Part number	Description
FS-1100	Flame simulator (ex proof)
877090	Tilt mount
877670	Duct mount
789260-2	U-bolt/pole mount 2-in
789260-1	U-bolt/pole mount 3-in
794079	USB RS-485 harness kit
877650	Air shield
877263 ⁽¹⁾	Protective cover (Plastic)
877163	Protective cover (Stainless steel)

(1) Supplied free of charge with the detector.

Specifications

Table 1: Detection Range

At highest sensitivity setting for 1 ft² (0.1 m²) pan fire.

Fuel	Range (ft/m)
Gasoline	215/65
n-Heptane	215/65
Diesel	150/45
JP5	150/45
Kerosene	150/45

Table 1: Detection Range (*continued*)

Fuel	Range (ft/m)
Ethanol 95%	135/40
Isopropyl alcohol (IPA)	135/40
Methanol	135/40
Methane ⁽¹⁾	150/45
Liquefied petroleum gas (LPG) ⁽¹⁾	150/45
Polypropylene pellets	115/35
Office paper	83/25
Gun powder (1.5 in ² (10 cm ²))	141/43
Fireworks (10 pieces per test)	23/7
Cooking oil	150/45
Mineral oil (20w50)	150/45
Wood	83/25
Ethylene glycol	118/36
Butyl acrylate	177/54
Vinyl acetate	177/54
Flammable adhesive (flash point 140 °F (60 °C))	150/45
Solvents	177/54
Oil paint	150/45
Jet fuel A1	150/45
Battery ⁽²⁾	200/61

(1) 30 in (0.75 m) high, 10 in (0.25 m) wide plume fire

(2) One battery cell

Table 2: General Specifications

Detection response time	Standard response: Typically < 5 sec
Sensitivity ranges	5 sensitivity ranges for 1 ft ² (0.1 m ²) n-heptane pan fire
Field of view	Horizontal: 100 ° Vertical: 95 °
Temperature range	Operating: -40 °F (-40 °C) to 167 °F (75 °C) Storage: -40 °F (-40 °C) to 167 °F (75 °C)
Humidity	Non-condensing relative humidity up to 100%

Table 3: Electrical Specifications

Operating voltage	24 Vdc nominal (18-32 Vdc)
Power consumption	Standby: Maximum 3 W (8 W with heated window) Alarm: Maximum 4.2 W (9 W with heated window)
Cable entries	2 x ¾ in - NPT conduits or 2 x M25 x 1.5 mm ISO
Electrical input protection	According to EN 50130

Table 3: Electrical Specifications (continued)

Electromagnetic compatibility	EMI/RFI protected to EN61000-6-3 and EN 50130
Electrical interface	The detector includes 17 terminals and one wiring option

Table 4: Outputs

Relays	Alarm, fault, and auxiliary SPST volt-free contacts rated 2 A at 30 Vdc
Analog output	Analog port malfunction: 0 V (< 0.5 V) Normal: 2 V ± 0.3 V Alarm: 5 V ± 0.3 V
0-20 mA (stepped)	Fault: 0 ± 1 mA Built-in test (BIT) fault: 2 mA ± 0.3 mA Normal: 4 mA ± 0.3 mA Warning: 16 mA ± 0.3 mA Alarm: 20 mA ± 0.3 mA
HART® protocol	HART communications on the 0-20 mA analog current (FSK) used for maintenance, configuration changes, and asset management, available in mA source output wiring options
RS-485	RS-485 Modbus® compatible communication link that can be used in computer controlled installations

Table 5: Mechanical Specifications

Enclosure options	Heavy duty copper free aluminum (less than 1%), polyurethane painted
Mounting	Electropolished stainless steel 316
Dimensions	Detector: 4 x 4.6 x 6.18 in (100.6 x 117 x 155 mm)
Weight	Detector aluminum: 2.8 lb (1.3 kg) Tilt mount: 2.5 lb (1.1 kg)
Water and dust	IP66 and IP68 per EN 60529, NEMA® 250 6P

Approvals

Hazardous area

ATEX and IECEx	Ex II 2GD Ex db eb IIC T4 Gb Ex tb IIIC T100 °C Db Ta = -40 °C to +75 °C IP66/IP68
FM/FMC/CSA	Class I, Division 1, Groups B, C, and D, T4A Class II, III, Division 1, Groups E, F, and G, T4A Class I, Division 2, Groups A, B, C, and D, T4 Ta = -40 °C to +75 °C Type 6P; IP 66/68 6.6 ft (2 m) for 45 minutes
TR CU (EAC)	1Ex d e IIC T4 Gb Ex tb IIIC T100 °C Db Ta = -40 °C to +75 °C IP66/IP68
In Metro	Pending
Performance	
EN54-10 FM3260	
Reliability	
IEC61508 - SIL3 (TUV)	

3. System

FirePro.

Reinventing
Fire Suppression

FP-14053 Manual Actuator

Rev 2

For use with Fire Suppression Systems

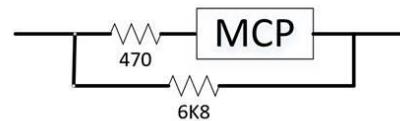
- Suitable for harsh vibration environments, such as vehicles and marine vessels
- Safety pin and anti-tamper tie to prevent accidental discharge
- Moulded aluminium assembly with water-proof switch mechanism
- Stainless Steel (316SS) switch guard for external applications
- Connections via Deutsch Plugs
- Made in the Australia

Specifications	
Contact Rating	50vDC
Contact Configuration	Normally Open
Switch Operation	Momentary Action
Dimensions	L100 x W80 x D64 mm



Instructions for use with Sigma XT Fire Panel

Sigma Panel requires special configuration with a 470 k Resistor in line and a 6K8 End of Line resistor as shown.



3.1. Sounder DUAL TONE Alert & Evacuate

SIRENA

MLINE

SIR-E FA



SIR-E FA

100 dB max - EN54-3

Cupole / Domes / Dômes



SIR-E FA

V DC	12 ÷ 24
mA	45 35
dB(A)1m	80 ÷ 100

Può essere installato con
Can be installed with
Peut être assemblé à

Basi / Bases



	EN54-3	EN54-3	EN54-3
SHALLOW	✓	✓	✓
DEEP	✓	✓	✓
WALL	✓	✓	✓
12/24V ACDC	✓	✓	✓
PNP 12/24V DC	✗	✗	✓
FLUSH	✓	✓	✓
DOUBLE	✓	✓	✓
POLE	✓	✓	✓



Vedi sezione BASI a pag. 120
See BASE Section on page 120
Voir page 120, section BASES

Codici / Codes

SIR-E FA



90378 90377

Sirena elettronica multifunzione certificata EN54-3. Sviluppata con tecnologia multicanale, SIR-E FA permette di gestire due diversi livelli di allarme (pre-allarme, allarme) attivabili tramite contatti elettrici indipendenti. Multisuono: 13 suoni certificati EN54-3.

Tensione operativa

Utilizzo consentito solo con basi LT 12/24V.

Caratteristiche meccaniche

Polycarbonato autoestinguente ad alta resistenza agli impatti, adatto per utilizzo esterno grazie al grado di protezione IP65.

Caratteristiche acustiche

Buzzer elettromagnetico che produce:

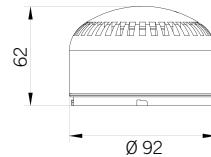
- PRE-ALLARME, un potente suono elettronico di max. 100 dB (suono selezionabile via dip-switch tra 12 suoni certificati EN54-3)
- ALLARME, un potente suono elettronico di max. 100 dB (1 suono continuo certificato EN54-3: PFEER TOXIC GAS).

Certificazioni / Certifications



EN
54-3

Numero CPR / Construction products regulation / Numero d'homologation CPR
EN54-3 | 1328-CPR-0479



0,20



Sirene électronique multifonctionnelle certifiée selon la norme EN54-3. Développée avec une technologie multicanale, SIR-E FA permet d'avoir deux niveaux d'alarme (pré-alarme, alarme) réglables à l'aide de connexions électriques séparées. Multi-sons : 13 sons homologués selon EN54-3.

Tension d'utilisation

Utilisation autorisée seulement avec bases LT 12/24V.

Caractéristiques mécaniques

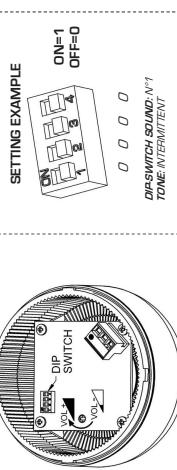
Polycarbonate autoextinguible, haute résistance aux chocs, adapté pour une utilisation à l'extérieur grâce au degré de protection IP65.

Caractéristiques acoustiques

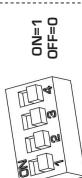
Buzzer électromagnétique qui produit :

- PRE-ALARME, un puissant son électronique d'un maximum de 100 dB (le son peut être sélectionné à l'aide de dip-switch entre 12 sons homologués selon EN54-3)
- ALARME, un puissant son électronique d'un maximum de 100 dB (un son continu homologué selon EN54-3 : type PFEER TOXIC GAS).

SIRENA MLINE | SIRE LED FA | SIRE FA



SETTING EXAMPLE



DIPSWITCH SPDT/ADJ/V*

ON=1
OFF=0

DIPSWITCH SOUNDS

N°	TONE	TONE TYPE	F[Hz]	TIME	DESCRIPTION	DIPSWITCH
S1	1	INTERMITTENT	-----	0.5s ON/ 1s OFF	ALERTAMENTO	0 0 0 0
S1	2	BK-TONE	□□□□□	0.50 - 0.10	EVACUAZIONE 1	1 0 0 0
S2	3	LINEAR	~~~~~	0.10	EVACUAZIONE 2	0 1 0 0
S3	4	SWEEP	~~~~~	2.00 - 28.00	CODE 0.1s	1 1 0 0
S4	5	SWEEP	NNNN	1.200 - 500	CODE 1s	0 0 1 0
S5	6	SWEEP	~~~~~	500 - 1200	3.5 s ON/0.5s OFF	0 0 1 0
S6	7	BTONE	□□□□□	554 - 340	0.1s/ 0.4s	0 1 1 0
S7	8	SWEEP	~~~~~	600 - 370	CODE 1s	1 1 1 0
S8	9	BK-TONE	□□□□□	510 - 610	0.25s/ 0.25s	0 0 0 1
S9	10	BK-TONE	□□□□□	980 - 650	BS FREE 50.000	1 0 0 1
S10	11	SWEEP	~~~~~	500 - 1200	2.0N 1 OFF	AUSTRIALIA AS/170
S11	12	SWEEP	~~~~~	500 - 1200	0.25s ON/ 0.5s OFF X 3 / 5 s OFF	0 1 0 1
S12	13	LINEAR	-----	970	"	1 1 0 1
					SUONO UNI 11744 EVACUAZIONE	*

- INSTRUZIONI DI INSTALLAZIONE E UTILIZZO - INSTALLATION AND APPLICATION INSTRUCTIONS -
- INSTRUCTIONS D' INSTALLATION ET D' UTILISATION - INSTALACIONES Y EMPLEO -
- INSTRUCCIONES DE INSTALACION Y EMPLEO -

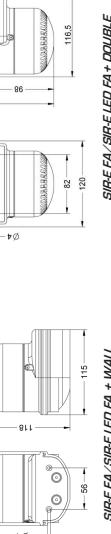
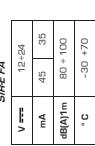
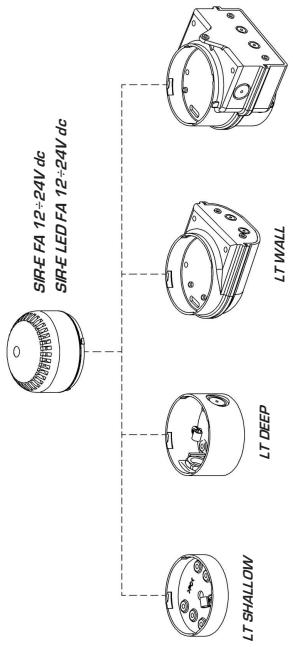
Dispositivo sonoro di allarme incendio [TIPO B] conforme EN 54-3:2001 + A1:2002 + A2:2006

Fire Alarm acoustic device [Type B], conform to EN 54-3:2001 + A1:2002 + A2:2006

Avertisseur acoustique pour Alarme Incendie [Type B], conforme à EN 54-3:2001 + A1:2002 + A2:2006

Feueralarm akustische Gerät [Type B], EN 54-3:2001 + A1:2002 + A2:2006 entsprechenden

Dispositivo acustico de Alarma de Incendio [Tipo B], conforme con EN 54-3:2001 + A1:2002 + A2:2006



NON SMALTIRE COME RIFIUTO URBANO - NOT TO BE DISPOSED OF AS COMMON WASTE - NE PAS ELIMINER COMME DECHET URBAIN
NICHT UEBER DIE NORMALE SAMMLUNG VON HAUSMULL ENTSTORGEN - NO ELIMINAR COMO DESHECHO URBANO

Le document énonçant le niveau sonore indiqué au point 6.2 de la Norme EN 54-3 est disponible sur demande

Das Dokument, mit der am Punkt 6.2 der Norm EN 54-3 festgesetzter Lautstärke, ist auf Anfrage erhältlich

El documento que recoge el nivel sonoro establecido en el punto 6.2 de la Norma EN 54-3 está disponible bajo petición

Il documento che riporta il livello sonoro previsto dal punto 4.6.2 della norma EN 54-3 è disponibile a richiesta
The document showing the sound level specified at point 4.6.2 of the EN 54-3 Norm is available upon request
Le document énonçant le niveau sonore indiqué au point 4.6.2 de la Norme EN 54-3 est disponible sur demande
Das Dokument, mit der am Punkt 4.6.2 der Norm EN 54-3 festgesetzter Lautstärke, ist auf Anfrage erhältlich
El documento que recoge el nivel sonoro establecido en el punto 4.6.2 de la Norma EN 54-3 está disponible bajo petición

3.2. Warning Signs

FirePro.

Reinventing
Fire Suppression

Sigma XT Generic Warning Signs

Rev 1.2

Indoor Warning Signs

Part No: FP-92300



Part No: FP-92400



Part No: FP-92500



Weatherproof Warning Signs

Part No: FP-92100

Part No: FP-92200

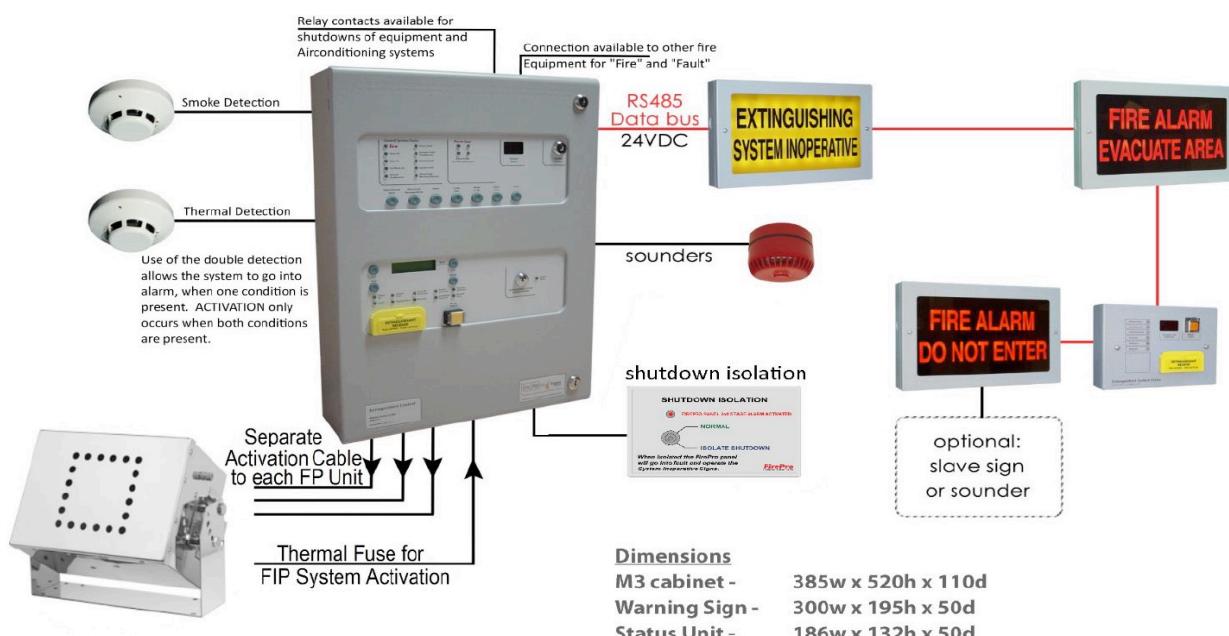
Part No: FP-92600

FEATURES

Matches design and colour scheme for Sigma XT FIP
High Brightness LEDs
Split level function
Multiple signs per circuit (dependent on supply voltage)
Internal Buzzer with disable function

Technical Data

	INDOOR	WEATHERPROOF
Power	15-30VDC	
Current – Max	140 mA	
Current -Quiesant	20 mA	
Construction	1.2mm mild sheet steel	Base Thermoplastic
Colour	BS 00 A 05 grey texture	Lid polycarbonate
IP Rating	IP40	IP55
Size	300 x 195 x 50	300 x 220 x 75



Dimensions

M3 cabinet - 385w x 520h x 110d
Warning Sign - 300w x 195h x 50d
Status Unit - 186w x 132h x 50d

FirePro.

Fire suppression systems backed by **research**,
committed to **people** and the **environment**

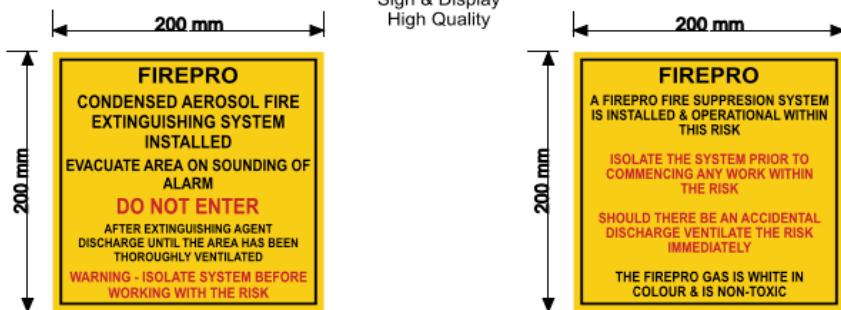
3.3. Traffolyte ID & Warning Signage external

Date: 24.06.21
Ref: 66805
Rev: A

PO: IM220621



CMYK - 0 16 100 0
Sign & Display
High Quality



3.4. Cable

FirePro.

Reinventing
Fire Suppression

FP-09500 Fire Rated Screened Cable

Rev 1



RAMFireCRO-F3 - Fire Resistant Cable, low smoke, Halogen Free

Application

Suitable for the connection between the sensors and the control of fire detection systems are required when special features such as: fire resistance, reduced emission of opaque smoke, the reduced emission of toxic and corrosive gases and halogen-free.

Technical Data & Standard References

Fire Performance	EN 50200 PH120 IEC 60331-21
Test on Single Cable	IEC 60332-1
Test on Bunched Cables	IEC 60332-3
Limiting Oxygen Prefix	Min 37%
Smoke Density	IEC 61034
Amount of halogen acid gas	IEC 60754-1 Max 0.5%
Acidity (PH value) and conductivity	IEC 60754-2

Construction

Formation	2 Core
Conductor Cross Section	0.75mm ²
Conductor	Plain Annealed copper wire, multistrand
Insulation	Special mix Silicon Rubber
Colour Code	Black, Red
Wrapping	I layer plastic tape 0.023mm
Collective screen	0.026mm Aluminium / PETP tape over tinned copper drain wire
Outer Sheath	THERMOPLASTIC Low Smoke, Halogen Free – LSZH - Red
Outer Diameter (nominal)	6.3mm

Electrical & Mechanical Data

DC Resistance per Core at 20°C	Max 27.1 Ω/km
Insulation Resistance at 20°C	Min 200 MΩ*km
Mutual Capacitance	Max 115 nF/km
Inductance	Max MH/km 1
Test Voltage Core / Core /Screen	2000 V
L/R Ratio	Max 25 μH/Ω
Operating Voltage	300 V
Temperature Range	-40°C to +75°C
Minimum Bend Radius	50mm
Weight Approx	61kg / km



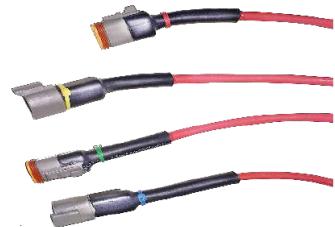
Wiring Looms Splitter Cables

Rev 1.3

WIRING LOOMS

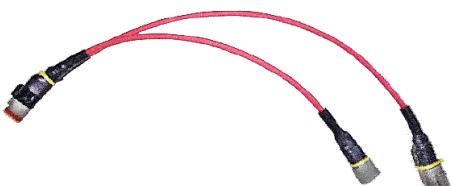
Systems are prepared using wiring Looms. These looms use 0.75mm stranded class 5 shielded fire Rated Cables. These are coloured red in accordance with Australian Standards for fire systems. The cables are colour coded using coloured cable ties:

The connections are made using Deutsch Plugs(DT Series) and these are provided in the kit for each system



SPLITTER CABLE

Where multiple FirePro generators are used, the activation splitter cables can be used. These are fitted in the cable assembly – this is important for the monitoring and activation circuits.



DEUTSCH PLUGS – DT Series

Deutsch Plugs (DT Series) environmentally sealed connectors are designed specifically for cable to cable applications. The connectors are suitable for harsh environment applications where even a small degradation in connection may be critical. Thermoplastic housings offer a wide operating temperature range -55°C to 125°C and silicone rear wire and interface seals allow the connectors to withstand dust and moisture rated to **IP68**. Suitable for up to 13 amps continuous. Contacts: Copper Alloy, Nickel Plated

DT series have been successfully tested to the 20 mm Flammability Test per Standard UL-94.



For crimping the connector pins we recommend using the correct Deutsch Crimping tool as shown.



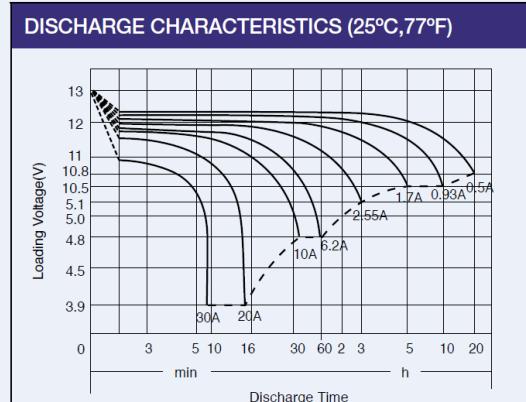
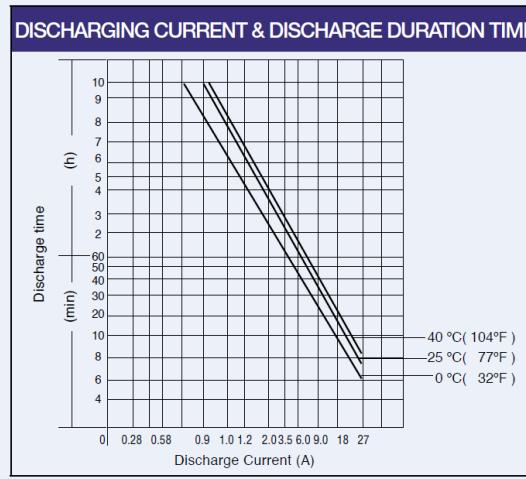
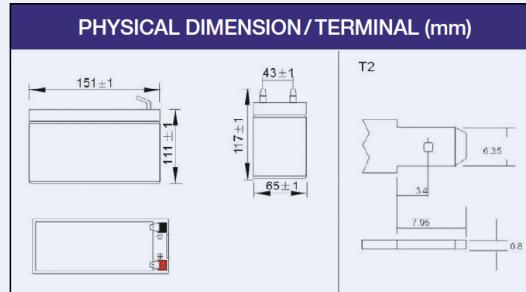
3.5. Battery

PS12100 Specifications



PHYSICAL SPECIFICATION	
Nominal Voltage	12V
Nominal Capacity (20HR)	10AH
Dimension	Length Width Container Height Total Height (with Terminal)
	151 ± 1mm (5.95 inches) 65 ± 1mm (2.56 inches) 111 ± 1mm (4.37 inches) 117 ± 1mm (4.61 inches)
Weight	Approx 3.30kg (7.28lbs)
Terminal Type	T2

ELECTRICAL SPECIFICATION							
Rated Capacity	20 hour rate (500mA) 10 hour rate (930mA) 5 hour rate (1.70A) 1 hour rate (6.20A) 15minute rate (19.6A)	10.00AH 9.3AH 8.5AH 6.2AH 4.9AH	Cycle	Initial Charging Current less than 3.6A.	Voltage 14.4V-15.0V at 25°C (77°F)	Temp. Coefficient -30mV/°C	
Capacity affected by Temperature	40°C (104°F) 25°C (77°F) 0°C (32°F)	103% 100% 86%	Constant-Voltage Charge	No limit on Initial Charging	Current Voltage 13.5V-13.8V at 25°C (77°F)	Temp. Coefficient -20mV/°C	
			Standby				



CONSTANT CURRENT (AMP) AND CONSTANT POWER (WATT) DISCHARGE TABLE 7°F												
Time (minute) Final voltage/ Cell	5 1.3	10 1.3	15 1.3	20 1.3	30 1.6	45 1.6	60 1.67	120 1.7	180 1.75	300 1.75	600 1.75	1200 1.8
Amp/Watt												
A	40.00	28.50	19.60	16.00	11.50	8.00	6.20	3.50	2.55	1.70	0.93	0.50
W	71.60	53.60	37.30	31.30	22.60	15.90	12.30	6.96	5.07	3.40	1.86	1.01

Trade Enquiries 1300 362 287
www.centurybatteries.com.au



CB109-548