NOTIFIER®
by Honeywell

Leaders in Life. Safety. Technology

Trade Catalogue 2014

Subject to change without notice

www.notifier.com.au

NFS SERIES

Fully approved to AS7240, parts 2 & 4 the NFS series offers a technically advanced range of facilities and functions while remaining easy to install & operate.

The NFS series is ideally suited for facilities such as offices, shops, hotels, clubs, small industrial units and schools etc offering a wide range of benefits to installers and end-users

- Simple to install
- 2, 4 & 8 zone versions
- Configurable inputs & outputs
- Day/Night mode investigation delay timers
- One-man walk test
- Space for up to 7AH batteries
- Capacitor or resistor End of Line

Cabinet Dimensions:
- 318mm H x 356mm W x 96mm D

Part #	Description
11402	NFS2 – 2 zone Conventional FACP
11403	NFS4 – 4 zone Conventional FACP
11404	NFS8 – 8 zone Conventional FACP

Accessories

Part #	Description
11405	Fire & Fault relay module
11406	8 way input/output module. Provides up to 8 configurable outputs or up to 4 inputs & 4 outputs

CFP-16 SERIES

With usability as a key focus for development and utilizing industry leading manufacturing and testing practices; the CFP-16 will provide an easy to use and powerful detection and control system for all conventional detection applications.

The standard panel is equipped with 8 zones but may be extended to 16 Zones by the addition of an 8 Zone expansion module.

The CFP-16 is extremely flexible and can be programmed to meet the demands of a wide variety of building types.

- Simple to install
- Expandable to 16 x conventional zones
- 24 character programmable zone descriptor
- Compatible with System Sensor devices
- Space for up to 33AH batteries

Cabinet Dimensions:
- CAB650 - 650mm H x 450mm W x 190mm D
- CAB900 - 900mm H x 450mm W x 190mm D

Part #	Description
FG-31-001	CFP-16/650-8Z-PS5 8 zones fitted with NPS-5 in CAB650
FG-31-002	CFP-16/650-8Z-PS11 8 zones fitted with NPS-11 in CAB650
FG-31-003	CFP-16/650-8Z-PS5-DA30 8 zones fitted with NPS-5 and DA-30 OWS in CAB650
FG-31-004	CFP-16/650-8Z-PS11-DA30 8 zones fitted with NPS-11 and DA-30 OWS in CAB650
FG-31-005	CFP-16/650-8Z-PS5-DA60 8 zones fitted with NPS-5 and DA-60 OWS in CAB650
FG-31-006	CFP-16/650-8Z-PS11-DA60 8 zones fitted with NPS-11 and DA-60 OWS in CAB650
FG-31-007	CFP-16/650-8Z-PS11-DA120 8 zones fitted with NPS-11 PSU and DA-120 OWS in CAB650
FG-31-010	CFP-16/900-8Z-PS11 8 zones fitted with NPS-11 in CAB900
FG-31-011	CFP-16/900-8Z-PS11-DA30 8 zones fitted with NPS11 and DA-30 OWS in CAB900
FG-31-012	CFP-16/900-8Z-PS11-DA60 8 zones fitted with NPS-11 and DA-60 OWS in CAB900
FG-31-013	CFP-16/900-8Z-PS11-DA120 8 zones fitted with NPS-11 PSU and DA-120 OWS in CAB900

Accessories

Part #	Description
ASY-01-039	ZEM-8 - 8 Zone expansion module to suit CFP-16
ASY-02-022	ACM-8RA - Relay module to provide up to 8 C/NO/NC relay contacts
ASY-01-043	Annunciator name plate for zone & custom labelling

NOTE: Contact your Notifier systems consultant for pricing of alternate configurations

CFP-16 SERIES AGENT RELEASE PANEL

Incorporating all the features of the CFP-16 FACP and the Notifier agent release module the agent release control panels provide 8 zones of detection with 1 zone of agent release.

- CAB650 and CAB900 versions available
- Versions available with LCS fitted to outer door.
- Space for up to 33AH batteries

Cabinet Dimensions:
- CAB650 – 650mm H x 450mm W x 190mm D
- CAB900 – 900mm H x 450mm W x 190mm D

Part #	Description
FG-31-015	CFP-16/650-8Z-PS11-GL – 8 zones fitted with NPS-11, 1 x Agent Release zone in CAB650 with LCS fitted to outer door
FG-31-017	CFP-16/900-8Z-PS11-GL – 8 zones fitted with NPS-11, 1 x Agent Release zone in CAB900 with LCS fitted to outer door

Accessories

Part #	Description
ASY-01-039	ZEM-8 - 8 Zone expansion module to suit CFP-16
ASY-02-022	ACM-8RA - Relay module to provide up to 8 C/NO/NC relay contacts
ASY-01-043	Annunciator name plate for zone & custom labelling

NOTE: Contact your Notifier systems consultant for pricing of alternate configurations

CFP-16 PANEL ACCESSORIES

ACM-8RA Relay Expansion Module
Provides 8 programmable relay contacts.

- Compatible to install into standard CHS-xL chassis or dedicated mounting position
- 1A @ 24VDC contacts
- Expandable up to 32 modules
- Compatible with CFP-16

Part #	Description
ASY-02-022	ACM-8RA - Relay module to provide up to 8 C/NO/NC relay contacts

CFP-16 Mimic Modules
Provides 8/16 zone remote alarm indication

- Compatible with standard annunciator mounting enclosures
- Red high-intensity alarm indication

Part #	Description
FG-72-023	ACM-ZM8 - Remote LED mimic annunciator for up to 8 zones
FG-72-024	AEM-ZM8 - Remote LED mimic expansion annunciator for an additional 8 zones

See Page 43 for Annunciator mounting enclosures

Alarm Routing Equipment (ARE) connection modules
Provides input/output from the CFP-16 to a common range of Alarm Routing Equipment.

- Mounts into standard annunciator slot(s)
- No additional relay board required

Part #	Description
ASY-02-037	ARE/C - ARE interface to suit Centaur
ASY-02-039	ARE/R - ARE interface to suit Romteck and Centaur II
ASY-02-041	ARE/CR - ARE interface to suit Code Red

See Page 44 for ASE mounting brackets for connection using expansion relays

Strobe/Sounder Interface

- 5A reversible output for use with dual strobes
- Fits into standard CHS-xL slot

Part #	Description
ASY-01-002	IFS-993F – Monitored Strobe/Sounder Interface

AS1668 Fan control Module
- Includes lamp test and A/C reset button
- Includes termination module

Part #	Description
ASY-01-020	1668x2 – Dual conventional AS1668 control and indications.

AFP-2802 - 2 LOOP FIRE ALARM CONTROL PANEL

The AFP-2802 is an intelligent stand alone Fire Alarm Control Panel designed for small to medium scale facilities.

With one or two loops the AFP-2802 supports up to 396 intelligent addressable devices.

- Modular hardware design
- Flexible non-proprietary programming interface
- 1 or 2 loops of analogue addressable devices
- Supports Notifier CLIP protocol only
    99 x detectors, 99 x modules
- Large ¼ VGA screen
- 4,000 event history log

Cabinet Dimensions:
  - CAB650 - 650mm H x 450mm W x 190mm D

NOTE: AFP-2802 is non-networkable

Part #	Description
FG-24-010	AFP-2802/650-1L-PS2 CAB650 c/w 1xSLC and NPS-2
FG-24-014	AFP-2802/650-1L-PS5-DA30 CAB650 c/w 1xSLC, NPS-5 and DA-30
FG-24-016	AFP-2802/650-1L-PS5-DA60 CAB650 c/w 1xSLC, NPS-5 and DA-60

NOTE: Contact your Notifier systems consultant for pricing of alternate configurations

AFP-2800 - 10 LOOP FIRE ALARM CONTROL PANEL

The AFP-2800 is an intelligent Fire Alarm Control Panel designed for medium to large scale facilities.

The AFP-2800 is ideal for virtually any application because it features a modular design that is configured per project requirements. With one to 10 loops the AFP-2800 supports up to 3,180 intelligent addressable devices.

- Modular hardware design
- Flexible non-proprietary programming
- Up to 10 loops of analogue addressable devices
- Supports Notifier FlashScan protocol
    159 x detectors, 159 x modules
- Backward compatible to CLIP protocol
- Large ¼ VGA screen
- 4,000 event history log
- Networkable up to 200 x node

Cabinet Dimensions:
  - CAB650 - 650mm H x 450mm W x 190mm D
  - CAB900 - 900mm H x 450mm W x 190mm D

Part #	Description
FG-24-102	AFP-2800/650-1L-PS5 CAB650 c/w 1xSLC and NPS-5
FG-24-104	AFP-2800/650-1L-PS5-DA30 CAB650 c/w 1xSLC, NPS-5 and DA-30
FG-24-106	AFP-2800/650-1L-PS5-DA60 CAB650 c/w 1xSLC, NPS-5 and DA-60
FG-24-114	AFP-2800/650-1L-PS11-DA120 CAB650 c/w 1xSLC, NPS-11 and DA-120
FG-24-134	AFP-2800/900-1L-PS5 CAB900 c/w 1xSLC and NPS-5
FG-24-136	AFP-2800/900-1L-PS5-DA30 CAB900 c/w 1xSLC, NPS-5 and DA-30
FG-24-144	AFP-2800/900-1L-PS5-DA60 CAB900 c/w 1xSLC, NPS-5 and DA-60
FG-24-146	AFP-2800/900-1L-PS11-DA120 CAB900 c/w 1xSLC, NPS-11 and DA-120

NOTE: Contact your Notifier systems consultant for pricing of alternate configurations

AFP-2800/AFP-2802 LOOP (SLC) MODULES

AFP-2802/AFP-2800 Loop (SLC) Modules

- Installs into standard CHS-xL chassis
- Supports CLIP and FlashScan protocols
  (panel dependant)
- Up to 400mA driving current

Part #	Description
11584	ELCM-320 Loop Control Module Used as loops 1, 3, 5, 7 or 9
10138	LEM-320 Loop Expander Module Used as loops 2, 4, 6, 8 or 10

AFP-2800 NETWORKING MODULES

Noti·Fire·Net™ Network Interface Module (NIM)

- Upgrade AFP-2800 to networking
- Used with NFN or HS-NFN

Part #	Description
ASY-01-044	NIM - Network Interface Module (IFS-725I)

Noti·Fire·Net™ Network Modules

- Supports network of up to 100 nodes
- Wire, multi and single mode fibre options
- 312.5K baud transmission rate
- Dual port for network redundancy

NOTE: Not compatible with High Speed Noti·Fire·Net™

Part #	Description
10556	NCM-W - Noti·Fire·Net control module - Wire
10730	NCM-F - Noti·Fire·Net control module – MMOF

Noti·Fire·Net™ Repeater Modules

- Regenerates Noti·Fire·Net signals for extremely long cable/fibre runs

NOTE: Use HS-NCM-x for High Speed Noti·Fire·Net™

Part #	Description
3778	RPT-WF Noti·Fire·Net Wire to MMOF repeater
4813	RPT-F Noti·Fire·Net Wire to Wire repeater

High Speed Noti·Fire·Net™ Network Modules

- Supports network of up to 200 nodes
- Wire, multi and single mode fibre options inc hybrid cards
- Up to 100mb baud transmission rate
- 1 x HS-NCM can support 2 nodes
- Can be used as a repeater

Part #	Description
FG-29-004	HS-NCM-W High Speed Noti·Fire·Net Module - Wire
FG-29-005	HS-NCM-MF High Speed Noti·Fire·Net Module - MMOF
FG-29-006	HS-NCM-SF High Speed Noti·Fire·Net Module - SMOF
FG-29-008	HS-NCM-WMF High Speed Noti·Fire·Net Module - Wire / MMOF
FG-29-009	HS-NCM-WSF High Speed Noti·Fire·Net Module - Wire / SMOF
FG-29-011	HS-NCM-MFSF High Speed Noti·Fire·Net Module – MMOF / SMOF

AFP-2800/AFP-2802 ANNUNCIATORS

LCD-80 remote mimic display

- Provides 80 character mimic function
- Displays all alarm, fault and isolate conditions

Part #	Description
10198	LCD-80/2800 80 character LCD remote mimic

See Page 43 for Annunciator mounting enclosures

SCS-8 Smoke Control Station

Provides 8 banks of switches and indications suitable for AS1668 fan and damper controls

- Incorporates lamp test and A/C reset buttons

Part #	Description
10145	SCS-8/2800 Smoke control station
10767	SCS-8L/2800 – custom mimic module 24 x inputs, 24 x outputs

See Page 43 for Annunciator mounting enclosures

;

ACM-16AT Annunciator Module

Provides 16 x programmable switch inputs and 16 Red and Amber LEDs ideal for zone isolates and test solenoids.

- Switches may be toggle or momentary
- Lamp test button

Part #	Description
10143	ACM-16AT/2800 LED and Button annunicator

See Page 43 for Annunciator mounting enclosures
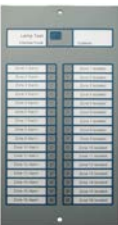
ACM-32A Annunciator Module

Provides 32 x programmable Red LEDs ideal for zone alarm indications.

- Slide-out zone text label
- Lamp test button

Part #	Description
10144	ACM-32A/2800 - LED output module

See Page 43 for Annunciator mounting enclosures

LDM-32 Lamp & Relay Driver Module

Provides 32 x 0V sink outputs to drive LEDs. Ideally suited to graphical mimics.

The optional relay driver module provides 32 x common, normally open contacts.

- Optional 32 x relay option module with C-NO contacts

Part #	Description
10460	LDM-32 - Lamp & relay driver module Requires LDM-R32 for relays
2686	LDM-R32 - Relay module for LDM-32

AFP-2800/AFP-2802 PANEL ACCESSORIES

Relay Expansion Modules
Provides 8 programmable relay contacts.

- Versions to install into standard CHS-xL chassis or dedicated mounting position
- 1A @ 24VDC contacts
- Expandable up to 64 relays
- Compatible with AFP-2802 and AFP-2800

Part #	Description
ASY-01-024	RLY8B – 8 way relay upgrade kit To suit CAB650/CAB900 cabinets

Strobe/Sounder Interface

- 5A reversible output for use with dual strobes
- Fits into standard CHS-xL slot

Part #	Description
ASY-01-002	IFS-993F – Monitored Strobe/Sounder Interface

AFP-2800 Programming Tools

Part #	Description
FG-98-001	USB to RS232 Converter
FG-98-002	Upload/Download cable to suit AFP-2800

Power Distribution Module (PDM)
The power distribution module simplifies installation by providing a single interface card to numerous power distribution requirements

- 8 x 1A Fused outputs
- 5A door holder output
- 2 x clean contact relays

Requires 24V DC input from panel power supply

Part #	Description
ASY-01-040	PDM – Power distribution module

Notifier OnyxWorks™ Workstation

ONYXWorks, a PC based graphical workstation, is NOTIFIER's next generation of integration technology that provides a single point of control for the fire systems throughout your building, city, state or even worldwide using Local or Wide Area Networks.

ONYXWorks graphical workstation unites your fire alarm network into one system and is an ideal retrofit solution to integrate existing fire alarm panels together.

From a single PC, the facility manager can view and manage all fire systems over a single network.

- Intuitive interface
- Simple, non proprietary configuration.
- Monitor and control up to 200 fire networks
- Mass notification paging functions
- Email alerting functions

Workstation

Description
OnyxWorks™ Workstation & map development

Software Licensing

Part #	Description
FG-29-013	OnyxWorks™ Workstation Basic Licence, includes email and Netlogic (requires map development)
FG-29-014	Notify-IP™ Workstation licence upgrade

PC-Based Noti·Fire·Net Gateways

Part #	Description
11534	NFN-GW-PC-W – PC based NFN gateway, Wire
11535	NFN-GW-PC-F – PC based NFN gateway, MMOF

Onyx FirstVision™

ONYX FirstVision™ is a revolutionary way finding navigational tool for fire fighters and other emergency responders.

ONYX FirstVision™ utilizes a 19" touch screen interface to graphically display critical information on the origin and spread of a fire; allowing fire fighters to quickly locate and extinguish the fire.

- Intuitive interface designed for fire fighters
- Self unlocking metal enclosure
- Displays information on multiple fire networks
- Presents hazmat, hydrant and other related information

Description
Onyx FirstVision™ 19" way finding tool including map development

NOTI-FIRE-NET GATEWAYS

Embedded Noti·Fire·Net Gateway

NFN gateway used to provide an interface to OnyxWorks™ Workstation or ONYX FirstVision™

- Monitor and control of all nodes on the Noti·Fire·Net network
- Utilizes TCP/IP
- Requires network control module

Part #	Description
FG-29-001	NFN-GW-EM-3 – NFN gateway

BacNet Gateway

Provides a BacNet interface from a Noti·Fire·Net to BMS system etc.

- Max 15,000 Bacnet objects on 14 nodes
- Uses BacNet over IP
- Requires network control module

Part #	Description
FG-29-002	BACNET-GW-3 – Bacnet gateway

ModBus Gateway

Provides a ModBus interface from a Noti·Fire·Net to BMS system etc.

- Monitors up to 4 nodes
- Uses ModBus over IP
- Requires network control module

Part #	Description
FG-29-007	ModBus-GW-3 – ModBus gateway

NWS-3 Web Server

Provides a web server functionality to remotely monitor the status of all devices on a Noti·Fire·Net from any computer using an internet browser.

- Utilizes TCP/IP
- Requires network control module

Part #	Description
FG-29-003	NWS-3 – Notifier Web Server

VESDAnet Gateway

The VESDA Gateway provides a communication link between the NOTI•FIRE•NET™ network and the Xtralis™ VESDAnet network.

- Utilizes TCP/IP
- Requires network control module
- Supports up to 100 detectors

Part #	Description
FG-29-017	VESDA-HLI-GW – VesdaNet gateway

NOTE: Requires VHX-1420-HFS for VesdaNet communication. See page 38

CONVENTIONAL DETECTORS

5151 Series Thermal Detectors

- Provides rate of rise &/or fixed point operation
- Available in low temperature (63°C) and high temperature (90°C)
- Uses universal B401 plug in base
- Magnetic test feature
- Dual LED's for 360° visibility
- 12/24VDC operation

Part #	Description
FG-02-020	5151RAUS – Rate of Rise, 63°C
FG-02-021	5151AUS – Fixed Temp, 63°C
FG-02-022	5151HRAUS – Rate of Rise, 90°C
FG-02-023	5151HAUS – Fixed Temp, 90°C

2151BAUS – Low Profile Photo Detector

- Low profile design
- Chamber design resists entry of dust
- Flashing LED with maintenance alert
- Dual LED's for 360° visibility
- Field cleanable with easily removed cover
- 12/24VDC operation
- 7%/m obscuration

Part #	Description
FG-02-025	2151BAUS Photoelectric smoke detector

B401 Universal Conventional Detector Base

- Universal for all plug-in conventional detectors
- Shorting-spring to ensure continuity when testing circuit
- Colour coded terminals
- Tamper proof lock
- Multiple hole centres

Part #	Description
FG-01-059	B401 Universal conventional detector base

Accessories:

Part #	Description
3816	SMK-400 Surface mount box for detector base
FG-01-058	WB-1AP-IV Wet base shroud for detector base

885WP-B - Sealed Thermal Detector

- Type B 63°C fixed temp operation
- Sealed against entry of moisture (IP67)
- Designed to provide open area protection in areas subject to moisture
- Dual LED's for 360° visibility
- Includes flying leads and base

Part #	Description
FG-02-024	885WP-B Type B Sealed Thermal

Photo-Electric Duct Detectors

- Air velocity rating from 0.5 m/s to 20.32m/s
- Versatile mounting option.
- Includes replaceable plug-in sensor head
- Backward compatible with Innovair models
- Multi-voltage (stand-alone) options available

NOTE: Requires sampling tube

Part #	Description
FG-02-005	D2 Conventional 2-wire duct detector
FG-02-010	D4120W 4-wire weatherproof stand alone duct detector (24VDC, 24VAC, 110VAC)

Accessories

Part #	Description
FG-01-006	DST1.5 Sampling tube to suit duct 0.3m to 0.6m
FG-01-007	DST3 Sampling tube to suit duct 0.5m to 1.2m
FG-01-008	DST5 Sampling tube to suit duct 1.2m to 2.4m
FG-01-009	DST10 Sampling tube to suit duct 2.4m to 3.7m
FG-01-010	ETX Duct detector exhaust tube

Low Profile 4-wire Smoke Alarms

- AS3786 approved
- Ceiling white colour
- Built in sounder
- N/O and N/C Alarm contacts
- Interconnect up to 24 units

Part #	Description
FG-02-001	2012J Photoelectric externally powered
FG-02-002	2012/24AUS Photoelectric with 9V battery back -up

Reflector Type Beam Detectors

- Single-ended reflective design
- 10-100m range
    >70m requires BEAMMMK
- 4-wire 12/24VDC operation
- Ceiling or wall mount
- In-built alignment tool
- Automatic gain control
- Remote test station available
- BEAM1224S includes built-in test station

Part #	Description
FG-02-027	BEAM1224 Conventional beam detector
FG-02-028	BEAM1224S Beam detector with built in test station (24VDC, 24VAC, 120VAC)

Accessories

Part #	Description
FG-01-064	BEAMMK Multi mount kit For use when mounting beam detector on ceiling or on an angle. Requires BEAMSMK
FG-01-065	BEAMSMK Surface mount kit
FG-01-066	BEAMLRK Long range kit (70-100m)
FG-01-067	RTS451Key Remote test station with key lock

Type E Thermal Probes

- Provides fixed point operation
- High Temperature setting
- Common & Normally Open contacts
- 316 Stainless Steel

Part #	Description
12166	Type E Thermal Probe set @ 60 °deg
12159	Type E Thermal Probe set @ 70 °deg
12167	Type E Thermal Probe set @ 80 °deg
12200	Type E Thermal Probe set @ 90 °deg
1317	Type E Thermal Probe set @ 100 °deg
12182	Type E Thermal Probe set @ 110 °deg
12168	Type E Thermal Probe set @ 120 °deg
12180	Type E Thermal Probe set @ 150 °deg
12185	Type E Thermal Probe set @ 180 °deg
12176	Type E Thermal Probe set @ 200 °deg
12179	Type E Thermal Probe set @ 240 °deg

CLIP PROTOCOL DETECTORS

SDX-851 Intelligent Photo Sensor

- CLIP protocol
- Flat chamber design to reduce false alarms
- Adjustable from 1.64% to 7.71%/m obscuration

Part #	Description
FG-03-005	SDX-851AUS –CLIP Photo-optical Smoke Sensor

FDX-851(R) Intelligent Thermal Sensor

- CLIP protocol
- Fixed Temp or Rate-of-Rise models available
- Adjustable from 58°C to 88°C

Part #	Description
FG-03-006	FDX-851AUS –CLIP fixed temperature thermal sensor
FG-03-007	FDX-851RAUS –CLIP rate of rise thermal sensor

IDX-751 – Intrinsically Safe Addressable Photoelectric Detector

- CLIP protocol
- Uses universal B501 plug in base

Certified to IEC:-
- Ex ia-IIB T5 Ga (-20°C ≤ Ta ≤ +40°C)
- Ex ia-IIB T4 Ga (-20°C ≤ Ta ≤ +60°C)
- Zones 0, 1 and 2

Part #	Description
FG-03-008	IDX-1E – Intrinsically safe addressable photoelectric detector

Accessories

Part #	Description
FG-01-056	IMX-1E – Intrinsically safe translator module. Required to create IS branch of SLC

See page 46 for isolators

FLASHSCAN PROTOCOL DETECTORS

FSP-851 Intelligent Photo Sensor

- FlashScan protocol
- Dual Bi-colour LED indication
- Flat chamber design to reduce false alarms
- Adjustable from 1.64% to 7.71%/m obscuration
- Fine protective mesh to prevent insect entry

Part #	Description
FG-03-011	FSP-851AUS – FlashScan Photo-optical Smoke Sensor

FSI-851 Intelligent Ionisation Sensor

- FlashScan protocol
- Dual Bi-colour LED indication
- Flat chamber design to reduce false alarms

Part #	Description
FG-03-012	FSI-851AUS – FlashScan Ionisation Sensor

FAPT-851 Acclimate™ Multi-Criteria Sensor

- FlashScan protocol
- Photo and Thermal multi-criteria sensing
- Automatically adjusts sensitivity based on environment
- Capable of "heat-only" alarm mode to prevent smoke from alarming the device
- Adjustable from 1.3% to 13% obscuration
- Incorporates 63°C fixed temp alarm

Part #	Description
FG-03-013	FAPT-851AUS – FlashScan Acclimate Multi-Criteria Heat/Smoke Sensor

FST-851(R) Intelligent Thermal Sensor

- FlashScan protocol
- Fixed Temp or Rate-of-Rise models available
- Adjustable from 58°C to 88°C

Part #	Description
FG-03-014	FST-851AUS – FlashScan fixed temperature thermal sensor
FG-03-015	FST-851RAUS – FlashScan rate of rise thermal sensor

FST-851(R)-WP Intelligent Sealed Thermal Sensor

- FlashScan protocol
- Fixed Temp or Rate-of-Rise models available
- Adjustable from 58°C to 88°C

Part #	Description
FG-03-009	FST-851-WP – FlashScan fixed temperature sealed thermal sensor
FG-03-010	FST-851R-WP – FlashScan rate of rise sealed thermal sensor

Accessories:

Part #	Description
FG-01-077	CP500 - Address programmer for FST-851-WP

FSC-851 IntelliQuad™ Multi-Criteria Sensor

- FlashScan protocol
- Multi-Criteria sensing provided by Photo, Thermal, Carbon Monoxide and Infra-Red sensing elements
- Designed to reduce false alarms
- Capable of "heat-only" alarm mode to prevent smoke from alarming the device

Part #	Description
FG-03-002	FSC-851AUS – FlashScan IntelliQuad multi-criteria sensor – CO, Photo, Thermal and IR

FSL-851 View™ High Sensitivity Laser Sensor

- FlashScan protocol
- High-Sensitivity laser sensing element
- Adjustable from 0.7% to 6.56% /m

Part #	Description
FG-03-016	FSL-751 –FlashScan View™ laser type sensor

FSB-200(S) Reflector type Beam Detector

- FlashScan protocol
- Powered from the SLC
- Single-ended reflective design
- 10-100m range
    - >70m requires BEAMMMK
- Ceiling or wall mount unit
- In-built alignment tool
- Automatic gain control
- Remote test station available
- FSB-200S includes built-in test station

Part #	Description
FG-03-017	FSB-200 Beam Detector
FG-03-018	FSB-200S Beam Detector with built-in test facility

Accessories

Part #	Description
FG-01-064	BEAMMK Multi mount kit For use when mounting beam detector on ceiling or on an angle. Requires BEAMSMK
FG-01-065	BEAMSMK Surface mount kit
FG-01-066	BEAMLRK Long range kit (70-100m)
FG-01-067	RTS451Key Remote test station with key lock to reset beam detector

DETECTOR ACCESSORIES

Universal Addressable Detector Base

- Universal for all plug-in addressable detectors
- Colour coded terminal
- Tamper proof lock
- Multiple hole centres

Part #	Description
FG-01-061	B501AUS Universal addressable detector base, off-white
FG-01-001	B501W Universal addressable detector base, white
FG-01-063	B501AP-BK Universal addressable detector base, black

Accessories

Part #	Description
3816	SMK-400 Surface mount box for off-white detector base
FG-01-058	WB-1AP-IV Wet base shroud for detector base

B524IEFT – Short Circuit Isolator Base

- Universal for all plug-in addressable detectors
- Tamper proof lock
- Multiple hole centres
- In-built short circuit isolator

Part #	Description
FG-01-062	B524IEFTAUS Universal addressable detector base with isolator, off-white

Coloured Detector Options

Replaceable cover for 851 series Photoelectric, Ionization and Heat detectors.

Part #	Description
FG-01-004	BCK-200B/10 – Black detector covers (pk of 10)
FG-01-002	Pure white detector covers (ea)

Intelligent Duct Detector Housings

- Air velocity rating from 0.5 m/s to 20.32m/s
- Versatile mounting option.
- Replaceable plug-in sensor head (not included)
- Backward compatible with Innovair models
- Indoor and Weatherproof (IP66) options

NOTE: Requires separate intelligent detector and sampling tube

Part #	Description
FG-01-051	DNR Duct detector housing for intelligent detector
FG-01-052	DNRW Weatherproof duct detector housing for intelligent detector

Accessories

Part #	Description
FG-01-006	DST1.5 Sampling tube to suit duct 0.3m to 0.6m
FG-01-007	DST3 Sampling tube to suit duct 0.5m to 1.2m
FG-01-008	DST5 Sampling tube to suit duct 1.2m to 2.4m
FG-01-009	DST10 Sampling tube to suit duct 2.4m to 3.7m
FG-01-010	ETX Duct detector exhaust tube

REMOTE INDICATORS

Remote Indicators

- Compatible with conventional and addressable detectors
- High brightness LED

Part #	Description
FG-01-040	Remote indicator "FIRE ALARM – IN ROOM"
FG-01-041	Remote indicator "FIRE ALARM – IN ROOF"
FG-01-042	Remote indicator "FIRE ALARM – IN CONCEALED SPACE"
FG-01-043	Remote indicator "FIRE ALARM – UNDER FLOOR"
FG-01-044	Remote indicator "FIRE ALARM – IN CUPBOARD"
FG-01-045	Remote indicator "FIRE ALARM – IN DUCT"
FG-01-046	Remote indicator "FIRE ALARM – IN LIFT SHAFT"
FG-01-047	Remote indicator "FIRE ALARM – IN COOL ROOM"

ADDRESSABLE FIELD I/O MODULES

Addressable Output Modules

- FlashScan protocol
- Control or Relay versions available for creating addressable relay outputs or notification appliance circuits

Part #	Description
FG-05-024	FCM-1 - Single intelligent control (monitored output) module. Requires external 24VDC
FG-05-025	FRM-1 - Single intelligent relay output module.

Accessories

Part #	Description
FG-01-068	SMB-500 Surface mount box to suit 500 series modules

Addressable Monitor Modules

- FlashScan protocol
- Switch input or conventional zone versions available.

Part #	Description
FG-05-026	FMM-101 Single switch input mini-module
FG-05-027	FMM-1 Single switch input module
FG-05-028	FDM-1 Dual switch input module
FG-05-029	FZM-1 Single conventional zone interface module Requires external 24VDC

Accessories

Part #	Description
FG-01-068	SMB-500 Surface mount box to suit 500 series modules

ISO-X Loop Isolator Module

- Isolates section of loop against short circuits.

Part #	Description
FG-05-035	ISO-X – Loop (SLC) isolator module

Accessories

Part #	Description
FG-01-068	SMB-500 Surface mount box to suit 500 series modules

FDMR-1 Addressable Dual Input/Output Module

- Ideally suited to AS1668 fan control function
- FlashScan protocol
- Can disable 1 input and/or 1 output
- DIN rail, panel or surface mount accessories

Part #	Description
FG-05-030	FDMR-1 FlashScan dual input/output module

Accessories

Part #	Description
FG-01-069	M200E-DIN DIN rail mount clip
FG-01-070	M200E-PMB Panel mounting clip
FG-01-071	M200E-SMB-KO Surface mount box with knockouts

XP Series Multipoint Monitor Modules

- Used to interface with devices such as flow and pressure switches, SFIP's or conventional detectors.
- Switch input or conventional zone versions available
- Can disable up to 2 unused inputs.
- Mounts in CHS-x chassis

Part #	Description
FG-05-031	XP-10M –10 way switch input module
FG-05-032	XP-6MA - 6 way Conventional zone interface module Requires external 24V

XP Series Multipoint Output Modules
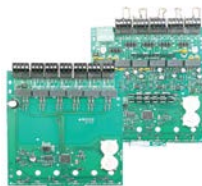
- FlashScan protocol
- Control or Relay versions available for creating addressable relay outputs or notification appliance circuits
- Can disable up to 2 unused outputs.
- Mounts in CHS-x chassis

Part #	Description
FG-05-033	XP-6R – 6 way relay output module
FG-05-034	XP-6C - 6 way control output (NAC) module Requires external 24V

ADDRESSABLE MANUAL CALL POINTS

NFX-MCP-GLASS Addressable Indoor MCP

- FlashScan protocol
- Surface mount or Flush mount
- Clear cover flap option available
- Flexible non-frangible element option available

Part #	Description
FG-05-049	NFX-MCP-GLASS – FlashScan indoor manual call point

Accessories

Part #	Description
FG-18-029	SR - Red back box to suit NFX-MCP-GLASS
FG-18-019	SG-1x10 Spare MCP glass (pk 10)
FG-18-021	PS200 Clear flap to cover MCP from accidental breakage
FG-18-022	PS210 Flexible MCP element
FG-18-023	SC070 Spare test key (pk 10)

WCP5A Addressable Outdoor MCP

- CLIP protocol
- IP67 outdoor rating
- Clear flap cover option available
- Flexible non-frangible element option available

Part #	Description
FG-05-020	WCP-5A - Addressable outdoor MCP

Accessories

Part #	Description
FG-18-019	SG-1x10 Spare MCP glass (pk 10)
FG-18-021	PS200 Clear flap to cover MCP from accidental breakage
FG-18-022	PS210 Flexible MCP element
FG-18-023	SC070 Spare test key (pk 10)

ADDRESSABLE LOOP POWERED AV

NFX Series Wall Mount Sounders & Beacons

- CLIP protocol
- Powered from SLC
- Fits to B501AP plug in base for easy install

Part #	Description
FG-05-037	NFX-WS-R - Addressable Wall Sounder. Red
FG-05-038	NFX-WS-IV - Addressable Wall Sounder. White
FG-05-039	NFX-WSF-RR - Addressable sounder\strobe
FG-05-041	NFX-WF-RR - Addressable Strobe

Accessories

Part #	Description
FG-01-079	B501AP-IV – Plug in base for NFX series
FG-01-080	BRR - Deep base. Red
FG-01-081	BDD – Deep Base. Off-white
FG-01-082	WRR – Waterproof base. Red
FG-01-083	WDD – Waterproof Base. Off-White

NFX Series Base Sounders & Beacons

- CLIP protocol
- Powered from SLC
- Fits to B501AP plug in base for easy install
- Able to fit detector directly to sounder/strobe

Part #	Description
FG-05-043	NFX-BS-IV - Addressable Sounder Base. Off White
FG-05-044	NFXI-BS-IV - Addressable Sounder Base with Isolator
FG-05-045	NFX-BF-IVR - Addressable Strobe base
FG-05-046	NFX-BSF-IVR - Addressable Sounder/Strobe base

Accessories

Part #	Description
FG-01-079	B501AP-IV – Plug in base for NFX series
FG-01-080	BRR - Deep base. Red
FG-01-081	BDD – Deep Base. Off-white
FG-01-082	WRR – Waterproof base. Red
FG-01-083	WDD – Waterproof Base. Off-White
FG-01-084	IBS-LID/DW – Lid to suit sounder base (pk 10)

I-2000 - EMERGENCY WARNING AND COMMUNICATION SYSTEM

The Notifier I-2000 Emergency Warning and Intercommunication System (EWIS) has been designed to facilitate the orderly and speedy evacuation of a building in the event of an emergency. This procedure may be initiated automatically by a fire alarm system or manually by a break glass call point.

The I-2000 may be used as a fully automated system or it will allow Fire Wardens to easily control and coordinate an evacuation using the dedicated emergency telephone network.

- Vertical control layout with up to 3 WIPs per zone
- Any combination of the following amplifiers can be used; 10W, 25W, 50W, 100W and 200W.
- Programmable timers and user configuration can be achieved on site.
- Background music inputs and PABX inputs available with zone selection through keypad control.
- Warden present indicators
- Cascade override
- Remote paging consoles
- Distributed network amplifiers

As these systems are available in any size or configuration, pricing is dependent on the particular design.

Warden Intercom Phones

Part #	Description
FG-54-001	WIP handset to suit I-2000 EWIS panel

Enclosures

Part #	Description
FG-54-002	WIP/BOX/IP55 – Weather proof (IP55) surface mount enclosure
FG-54-003	WIP/BOX/IP66 – Weather proof (IP66) surface mount enclosure

DIGITAL VOICE COMMAND

Digital Voice Command (DVC)

The DVC is the heart of an integrated, full-featured Audio Command Center. The DVC Digital Voice Command combines the capabilities of a powerful digital audio processor, an event driven audio message generator, and a router. Designed for use with Digital Audio Loop (DAL) devices such
as DAA2 series digital amplifiers, each DVC supports a dedicated audio network with up to eight channels of audio and control and supervision for up to 32 DAL devices.

The DVC may be networked with an AFP-2800 Fire Alarm Control Panel (FACP) via NOTI•FIRE•NET or integrated as part of an overall mass notification system via an ONYXWorks workstation.

DVC requires NCM to communicate on Noti-Fire-Net see page 6

Part #	Description
FG-25-001	DVC-EM - Digital Voice Command extended memory - wire

Accessories

Part #	Description
ASY-01-031	DVC Accessories Kit, include metalwork for mounting and labels etc
ASY-01-033	MIC-1 – Panel Paging microphone, includes metalwork
FG-25-004	DVC-KD – Keyboard display to suit DVC
FG-25-006	DVC-AO – DVC 4 x Analog Output (12V P-P)
FG-25-014	DS-FM - Fibre Adapter (Multi Mode)
FG-25-016	DS-SFM - Fibre Adapter (Single Mode)

Digital Audio Amplifiers

The DAA2 series amplifiers are multi-featured amplifiers with digital audio functionality for the Digital Voice Command

- 50W total output (100W with BDA-70)
- Supports up to four monitored speaker output circuits
- Integrated battery charger and power supply
- Designed to be distributed around site via wire or fibre

Part #	Description
FG-25-011	DAA2-5070E - Digital Audio Amplifier 50W @ 70V - Wire
FG-25-026	DAA2-5070E\CAB – Digital Audio Amplifier CHA-W, CHB-W, 50W, 70V output 240Vac
FG-25-013	BDA-70V - Backup Digital Amplifier 50W.

Accessories

Part #	Description
FG-25-014	DS-FM - Fibre Adapter (Multi Mode)
FG-25-016	DS-SFM - Fibre Adapter (Single Mode)

DVC Analog Output Interface

DVC-AOI enables a connection between the DVC analog outputs (DVC-AO) to 3rd party analog amplifier such as EWIS systems. This permits the function of DVC to be gained whilst maintain already installed warning systems.

- 1V Pk-Pk analog audio output
- Contact closure on audio activation
- External fault input

NOTE: DVC-AOI requires DVC-AO

Part #	Description
ASY-02-035	DVC-AOI – DVC Analog output Interface to 3rd party amplifiers

DA SERIES BUILDING OCCUPANT WARNING SYSTEM

DA Series Stand-alone Occupant Warning Systems

Stand alone occupant warning system including power supply and battery charger in metal enclosure.

- Digital pre-recorded speech messages
- Chime, Lock-down, False alarm and Test messages
- Ability to synchronize multiple amplifiers
- Includes DA series BOWS and power supply indications and controls

Cabinet Dimensions:
- CAB650 - 650mm H x 450mm W x 190mm D

Part #	Description
FG-40-004	DA-30/CAB – 30W building occupant warning system
FG-40-005	DA-60/CAB – 60W building occupant warning system
FG-40-006	DA-120/CAB – 120W building occupant warning system

DA Series Occupant Warning Modules

- Digital pre-recorded speech messages
- Chime, Lock-down, False alarm and Test messages
- Ability to synchronize multiple amplifiers
- Mounts onto CHS-1L chassis

Part #	Description
ASY-02-002	DA-30 – 30 Watt building occupant warning system
ASY-02-003	DA-60 – 60 Watt building occupant warning system
ASY-02-004	DA-120 – 120 Watt building occupant warning system

Accessories

Part #	Description
ASY-01-006	CMM-2 – Custom message module (2 x messages)

DA Series Occupant Warning Display Modules

Provides DA series occupant warning system amplifiers with manual control and PA functionality.

- Designed to be installed in standard annunciator slots.

Part #	Description
ASY-01-014	DA-DISP/A– DA Series control and microphone to suit 18u/28u/40u cabinets
ASY-01-015	DA-DISP/B– DA Series control and microphone to suit CAB650/CAB900 cabinets
ASY-01-017	DA-DISP/C – DA Series control module to suit 18u/28u/40u cabinets
ASY-01-018	DA-DISP/D – DA series PA selector for up to 4 zones Requires a DA-DISP/C for each zone control

SDM-4 Speaker Distribution Module

The SDM-4 can be used with a DA series amplifier to provide up to 4 individual monitored speaker circuits.

- 40W output per circuit (max)
- Inputs to disable zones
- Individual S/C and O/C indications

Part #	Description
ASY-01-005	SDM-4 – 4 way speaker distribution module

Remote Desktop Paging Console

Paging console to provide remote paging functionality to DA series amplifiers

- CAT5 connection to DA series OWS
- max 300m from OWS

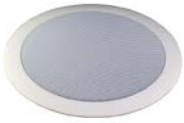| Part #	Description
FG-40-002	MIC/1D – Desktop paging console, 1 x Zone
FG-40-003	MIC/4D – Desktop paging console, 4 x Zones

CEILING SPEAKERS

SP-125 Ceiling Speaker

- Power tappings: 0.375, 0.75, 1.5, 3, 6 W
- SPL: 90dB 1W @ 1m
- Ceiling cut-out: 165mm ø

Part #	Description
FG-70-032	SP-125 recessed ceiling speaker (125mm)

SP-100 Ceiling Speaker

- Power tappings: 0.375, 0.75, 1.5, 3, 6 W
- SPL: 90dB 1W @ 1m
- Ceiling cut-out: 140mm ø

Part #	Description
FG-70-033	SP-100 recessed ceiling speaker (100mm)

Accessories

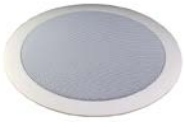| Part #	Description
FG-70-034	SM-100 – Surface mount box to suit 4" speaker, White

SP-100-BK Black Ceiling Speaker

- Power tappings: 0.375, 0.75, 1.5, 3, 6 W
- SPL: 90dB 1W @ 1m
- Ceiling cut-out: 140mm ø

Part #	Description
FG-70-035	SP-100-BK recessed ceiling speaker (100mm)

Accessories

Part #	Description
FG-70-036	SM-100-BK - Surface mount box to suit 4" speaker, Black

SP-100WP Outdoor Ceiling Speaker

Ceiling speaker designed to meet damp and harsh environments such as outdoors, swimming pools, bathrooms & showers.

- Power tappings: 0.375, 0.75, 1.5, 3, 6 W
- SPL: 90dB 1W @ 1m
- Ceiling cut-out: 140mm ø
- Aluminium grille
- Silicon treated cone

Part #	Description
FG-70-029	SP-100WP - IP54 Ceiling Speaker (6W), White

Accessories

Part #	Description
FG-70-034	SM-100 – Surface mount box to suit 4" speaker, White

HORN SPEAKERS

SP-H15 – 15W Horn Speaker

- Power tappings: 0.95, 1.9, 3.75, 7.5, 15 W
- SPL: 106dB 1W @ 1m
- Suitable for outdoor (IP66)

Part #	Description
FG-70-031	SPH-15 – 15W Horn Speaker

Exd Alarm Horn Speakers

- 100V audio line
- 15W RMS rated output
- 102dB @ 1W

Certified to IEC:-
- II 2G Ex d-IIB T4 Ta. -50°C to +70°C
- II 2G Ex d-IIC T4 Ta. -50°C to +55°C
- II2D Ex tD A21 IP67 T115 **
- Zones 1 and 2
- Zones 1,2, 21 and 22 **** Dust version only

Part #	Description
FG-70-060	BExL15D100V Exd Horn Speaker - 100V line, 15W
FG-70-061	BExDL15D100V Exd Horn Speaker - 100V, 15W – Dust version

HONEYWELL AV SPECIAL APPLICATION SPEAKERS

L-VJM10AENC – Unidirectional projection speaker

- 10W Output
- IP65
- EN54.25 certified

Part #	Description
FG-70-023	L-VJM10AENC – Unidirectional projection speaker

L-VBM20AENC – Bidirectional projection speaker

- 20W output
- Ceiling or wall mount
- IP65
- EN54.25 certified

Part #	Description
FG-70-024	L-VBM20AENC – Bidirectional projection speaker

L-PPP20A – Pendant Speaker

- Suitable for speech and music reproduction
- Robust fire resistant ABS enclosure
- 2m long fire resistant cable

Part #	Description
FG-70-025	L-PPP20A – Pendant Speaker

INSTALLATION TOOLS & TEST EQUIPMENT

Hole Saws
A range of quality hole saws to permit easy installation of suit the Notifier ceiling speakers.

Part #	Description
FG-98-007	140mm Hole saw to suit SP-100
FG-98-003	165mm Hole saw to suit SP-125
FG-98-004	A6 Arbor to suit hole saw

NOTIFICATION APPLIANCES

ENscape Series Wall/Ceiling Sounders

- 2 stage tones
- Up to 110db (A) output (max)
- Outdoor (IP65) version
- 12mA alarm current
- 32 tones
- Synchronized sound

Part #	Description
FG-70-069	CWSO-RR-S1 – Surface mount low profile sounder. Red
FG-70-070	CWSO-WW-S1 – Surface mount low profile sounder. White
FG-70-019	CWSO-RR-W1 – Surface mount IP65 sounder. Red
FG-70-020	CWSO-WW-W1 – Surface mount IP65 sounder. White

ENscape Series Sounder \Beacon

- 2 stage tones
- 110dB 110db (A) output (max)
- Outdoor (IP65) version
- 22mA alarm current
- 32 tones
- Synchronized flash and sound

Part #	Description
FG-70-026	CWSS-RB-S7 – Strobe Beacon. Red body, Red Lens, low profile base
FG-70-027	CWSS-RB-W7 – Strobe Beacon. Red body, Red Lens, Deep/IP65 base

ENscape Beacons

- Excellent light output
- Soft start function to reduce power surges
- Synchronized flash

Part #	Description
FG-70-071	CWST-RR-S7 – Signal Beacon, Red body, Red Lens, low profile base
FG-70-072	CWST-RA-S7 – Signal Beacon, Red body, Amber Lens, low profile base

Mini Horn Sounders

- Up to 91dB output
- 13mA alarm current
- Includes silence button
- 12/24VDC operation

Part #	Description
FG-70-015	MHWZA - SpectrAlert Mini-Horn Sounder - White
FG-70-016	MHRZA - SpectrAlert Mini-Horn Sounder - Red

DBS Series Sounder Bases

- 93dB output
- 12mA alarm current

Part #	Description
11108	DBS-4-W – 4 tone detector sounder base

Accessories

Part #	Description
11161	DBSLIDW – White lid to suit DBS-4-W

SOLEX Series Strobes

- 10cd output
- 10V-60VDC input
- IP54 with shallow base, IP65 Deep base
- 80mA alarm current

Part #	Description
11246	SOLEX10/R – Red Xenon strobe
11247	SOLEX10/A – Amber Xenon strobe
11264	SOLEX10/B – Blue Xenon strobe

Accessories

Part #	Description
FG-70-014	Deep conduit base to suit Roshni/Solex - Red
11279	Deep conduit base to suit Flashni/Solex - White

Roshni Sounder

- 100dB output
- 12mA alarm current
- IP54 with shallow base, IP65 Deep base

Part #	Description
2119	Roshni – Shallow base sounder, Red

Accessories

Part #	Description
FG-70-014	Deep conduit base to suit Roshni/Solex - Red

Flashni Strobe/Sounder

- 99dB output
- 64mA alarm current
- IP54 with shallow base, IP65 Deep base

Part #	Description
1456	Flashni – Shallow white base strobe/sounder, Red Lens

Accessories

Part #	Description
11279	Deep conduit base to suit Flashni/Solex - White

Red and Amber Dual Strobes

- 100mA alarm current (per strobe)
- Strong metal mounting box

Part #	Description
11145	Red and Amber Dual strobe on white metal box

SRHKRLFIRE Outdoor Brigade Strobe

- 135-185cd adjustable output
- 228 - 286mA alarm current
- Outdoor (IP66) rating
- Labelled "FIRE" in accordance with requirements of AS1670.1
- Includes surface mount back box

Part #	Description
FG-70-021	SRHKRLFIRE – SpectrAlert Advance Outdoor Brigade strobe

HAZARDOUS AREA NOTIFICATION APPLIANCES

Explosion Proof Strobes

- High output 5J or 15J options

  Certified to IEC:-
  - II 2G Ex d-IIC t
  - II 2G Ex d-IIC T4 Ta. -50°C to +60°C
  - II 2G Ex d-IIC T5 Ta. -50°C to +55°C
  - II 2G Ex d-IIC T6 Ta. -50°C to +40°C
  - II 2D Ex tD IIC A21 T115^{o}C Db IP67
  - Zones 1, 2, 21 and 22

Part #	Description
FG-70-044	BExBGL05D24DC-RD 5 Joule Exd Beacon, Red Lens
FG-70-045	BExBGL05D24DC-AM 5 Joule Exd Beacon – Amber Lens
FG-70-046	BExBGL15D24DC-RD 15 Joule Exd Beacon, Red Lens
FG-70-047	BExBGL15D24DC-AM 15 Joule Exd Beacon – Amber Lens

Explosion Proof Alarm Horns

- High 110dB or 120dB output
- 45 tone settings

  Certified to IEC:-
  - II 2G Ex d-IIB T4 Ta. -50°C to +70°C
  - II 2G Ex d-IIC T4 Ta. -50°C to +55°C
  - II2D Ex tD A21 IP67 T115 **
  - Zones 1 and 2
  - Zones 1,2, 21 and 22 **

  ** Dust version only

Part #	Description
FG-70-048	BExS110D24DC 110Db Exd Alarm Horn
FG-70-049	BExDS110D24DC 110Db Exd Alarm Horn – Dust version
FG-70-050	BExS120D24DC 117Db Exd Alarm Horn

IS-A105N-R Intrinsically Safe Horn Sounder

- 105dB output
- 49 tone settings and 3 input stages

Certified to IEC:-
- II 1G Ex ia-IIC T4 Ga. -40°C < Ta < +60°C
- Zone 0

Part #	Description
FG-70-051	IS-A105N-R IS Horn Sounder 24VDC, Red

IS-mA1-R Intrinsically Safe 'Minialarm' Sounder

- 100db output
- 49 tone settings and 3 input stages

Certified to IEC:-
II 1G Ex ia-IIC T4 Ga. -40°C < Ta < +60°C
Zone 0

Part #	Description
FG-70-056	IS-mA1-R IS Mini alarm Sounder 24VDC, Red

IS-mC1-R Intrinsically Safe 'Minialert' Combined Sounder/Beacon

- 100db output
- 24cd beacon output
- 49 tone settings and 3 input stages

Certified to IEC:-
- II 1G Ex ia-IIC T4 Ga. -40°C < Ta < +60°C
- Zone 0

Part #	Description
FG-70-055	IS-mC1-R/R IS Minialert combined sounder/beacon, 24VDC, Red

IS-mB1 Intrinsically Safe 'Minialite' Beacon

- 24cd beacon output

Certified to IEC:-
- II 1G Ex ia-IIC T4 Ga. -40°C < Ta < +60°C
- Zone 0

Part #	Description
FG-70-057	IS-mB1-R IS Minialite red lens
FG-70-058	IS-mB1-A IS Minialite amber lens
FG-70-059	IS-mB1-B IS Minialite blue lens

IS-L101L Intrinsically Safe LED Beacon

- 48cd beacon output

Certified to IEC:-
- II 1G Ex ia-IIC T4 Ga. -40°C < Ta < +60°C
- Zone 0

Part #	Description
FG-70-052	IS-L101L-R IS LED Beacon red lens
FG-70-053	IS-L101L-A IS LED Beacon amber lens
FG-70-054	IS-L101L-B IS LED Beacon blue lens

FIRE BELLS

SSM Series Fire Bells
SSM series alarm bells are low current, high decibel notification appliances for use in fire or other signaling applications.

- High dB output
- Suitable for indoor and outdoor use
- Low current draw

Part #	Description
FG-70-065	SSM24-6 – 6" (150mm) Alarm bell – 24VDC
FG-70-066	SSM24-8 – 8" (200mm) Alarm bell – 24VDC
FG-70-067	SSM12-6 – 6" (150mm) Alarm bell – 12VDC

Accessories

Part #	Description
FG-70-068	WBB – Back Box to suit Bells –Red

AGENT RELEASE MODULE

The Notifier Agent release module is used to control the release of suppressing agents in accordance with AS4214 or AS14520.1

- Dual risk operation from 3 risk inputs
- Optional Pyrozone interface
- Master "Service Isolate" button
- Fits into 1 x CHS-xL slot

Part #	Description
ASY-01-008	Agent Release Module Kit

AGENT RELEASE LOCAL CONTROL STATION (LCS)

The Notifier local control station is used for connection to a gas control panel for remote control of the suppression agent isolation and release.

- Simple to install, flip down enclosure
- Interfaces to Notifier Agent Release module

Enclosure Dimensions (Standard LCS):
- 190mm H x 110mm W x 80mm D

Part #	Description
FG-42-001	LCS – Agent release local control station

Accessories

Part #	Description
FG-72-016	STI-3150 Weather stopper, clear polycarbonate enclosure

ILLUMINATED WARNING SIGNS

Indoor Red Warning Sign (body only)

- Attractive slim-line sign
- Integrated piezo sounder
- High brightness red LED illumination
- Range of standard face plates

Part #	Description
FG-42-003	WSR-I Red Indoor Warning Sign

Face Plates

Part #	Description
FG-42-031	Face plate Customer Specified Text
FG-42-012	Face Plate "FIRE ALARM, DO NOT ENTER"
FG-42-013	Face Place "FIRE ALARM, EVACUATE AREA"
FG-42-014	Face Plate "FIRE DOOR CLOSING"
FG-42-015	Face Plate "DO NOT ENTER, GAS DISCHARGED"

Outdoor Red Warning Sign (body only)

- IP66 outdoor rating
- Integrated piezo sounder
- High brightness red LED illumination
- Range of standard face plates

Part #	Description
FG-42-004	WSR-O Outdoor Red Warning Sign

Face Plates

Part #	Description
FG-42-032	Face plate, Customer Specified Text
FG-42-017	Face Plate "FIRE ALARM, DO NOT ENTER"
FG-42-018	Face Place "FIRE ALARM, EVACUATE AREA"
FG-42-020	Face Plate "DO NOT ENTER, GAS DISCHARGED"

Indoor System Inoperative Warning Sign

- Attractive slim-line styling
- Integrated piezo sounder
- High brightness amber LED illumination
- System Inoperative faceplate for use with agent release systems

Part #	Description
FG-42-005	WSA-I/SI - Indoor "System Inoperative" Warning Sign

Outdoor System Inoperative Warning Sign

- IP66 outdoor rating
- Integrated piezo sounder
- High brightness amber LED illumination
- System Inoperative faceplate for use with agent release systems

Part #	Description
FG-42-006	WSA-O/SI - Outdoor "System Inoperative" Warning Sign

CONVENTIONAL MANUAL CALL POINTS

Conventional Indoor Manual Call Points

- Normally Open and Normally Closed operation
- Transparent cover available. (Standard on Yellow MCP)
- Multiple colour options for variety of functions
- Flexible (non-glass) element available (Standard on Red resettable MCP)

Part #	Description
FG-18-004	MCP1A-R Red surface mount MCP, House + Flame
FG-18-010	Red resettable MCP, House + Flame
FG-18-011	White MCP, labelled "Emergency Alarm"
FG-18-013	Yellow MCP with clear flap, labelled "Extinguishant Release"
FG-18-015	Green MCP, labelled "Door Release"
FG-18-017	Blue MCP, no label

Accessories

Part #	Description
FG-18-019	SG-1x10 Spare MCP glass (pk 10)
FG-18-021	PS200 Clear flap to cover MCP from accidental breakage
FG-18-022	PS210 Flexible MCP element
FG-18-023	SC070 Spare test key (pk 10)

WCP3A Conventional Outdoor Manual Call Points

- Outdoor (IP67) rating
- Normally Open and Normally Closed operation
- Transparent cover available. (Standard on Yellow MCP)
- Multiple colour options for variety of functions
- Flexible (non-glass) element available

Part #	Description
FG-18-008	Red surface mount MCP, House + Flame
FG-18-002	White surface mount MCP, "Emergency alarm"
FG-18-014	Yellow surface mount MCP with clear cover, "Extinguishant Release"
FG-18-016	Green surface mount MCP, "Door Release"
FG-18-018	Blue surface mount MCP, no label

Accessories

Part #	Description
FG-18-019	SG-1x10 Spare MCP glass (pk 10)
FG-18-021	PS200 Clear flap to cover MCP from accidental breakage
FG-18-022	PS210 Flexible MCP element
FG-18-023	SC070 Spare test key (pk 10)

HAZARDOUS AREA MANUAL CALL POINTS

EXD Manual Call Point

Certified to IEC:-
- Ex e d-IIC T6 Gb (-40°C ≤ Ta ≤ +55°C)
- Ex t-IIIC T60 Db (-40°C ≤ Ta ≤ +55°C)

Part #	Description
FG-18-039	BexCP3A-BG – Red Exd Manual Call Point

WCP3A-IS Intrinsically Safe Conventional Outdoor MCP

- Outdoor (IP67) rating
- Normally Open and Normally Closed operation
- Flexible (non-glass) element available

Certified to IEC:-
- Ex ia-IIB T4 Ga (-30°C ≤ Ta ≤ +40°C)
- Zones 0, and 20

Part #	Description
FG-18-031	Red surface mount Intrinsically safe MCP, House + Flame

Accessories

Part #	Description
FG-18-019	SG-1x10 Spare MCP glass (pk 10)
FG-18-021	PS200 Clear flap to cover MCP from accidental breakage
FG-18-022	PS210 Flexible MCP element
FG-18-023	SC070 Spare test key (pk 10)

ADDRESSABLE MANUAL CALL POINTS

NFX-MCP-GLASS Addressable Indoor MCP

- FlashScan protocol
- Surface mount or Flush mount
- Clear cover flap option available
- Flexible non-frangible element option available

Part #	Description
FG-05-049	NFX-MCP-GLASS – FlashScan indoor manual call point

Accessories

Part #	Description
FG-18-029	SR – Red back box to suit NFX-MCP-GLASS
FG-18-019	SG-1x10 Spare MCP glass (pk 10)
FG-18-021	PS200 Clear flap to cover MCP from accidental breakage
FG-18-022	PS210 Flexible MCP element
FG-18-023	SC070 Spare test key (pk 10)

WCP5A Addressable Outdoor MCP

- CLIP protocol
- IP67 outdoor rating
- Clear flap cover option available
- Flexible non-frangible element option available

Part #	Description
FG-05-020	WCP-5A - Addressable outdoor MCP

Accessories

Part #	Description
FG-18-019	SG-1x10 Spare MCP glass (pk 10)
FG-18-021	PS200 Clear flap to cover MCP from accidental breakage
FG-18-022	PS210 Flexible MCP element
FG-18-023	SC070 Spare test key (pk 10)

MAGNETIC DOOR HOLDERS

Surface Mount Magnetic Door Holders

- 400/1000N Holding force
- Spark suppression
- Reverse polarity diode fitted

Part #	Description
FG-60-001	MDH400 Magnetic Door Holder 400N (41kg)
FG-60-002	MDH1000 Magnetic Door Holder 1000N (102kg)

Accessories

Part #	Description
FG-60-003	MDHW15 Wall mount extension bracket 15cm
FG-60-004	MDHW30 Wall mount extension bracket 30cm
FG-60-005	MDH/F Floor Mount Bracket

Floor/Wall Mount Magnetic Door Holders

- 15/30cm arm legths
- Spark suppression
- Reverse polarity diode fitted

Part #	Description
FG-60-006	MDH400/15 Wall or Floor mount magnetic door holder 400N (41kg), 15cm arm
FG-60-007	MDH400/30 Wall or Floor mount magnetic door holder 400N (41kg), 30cm arm

Accessories

Part #	Description
FG-60-008	SZ2575 Surface mount box for MDH400/15 or MDH400/30

MDH1350 Magnetic Door Holder
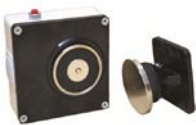
Part #	Description
1445	MDH1350 Surface mount magnetic door holder, 60mA

Remote Door Release

Remote door release switch for magnetic door holders, fitted onto Clipsal style switch plate

Part #	Description
FG-60-010	MDHREM – Remote door release plate

ALARM ACKNOWLEDGEMENT MODULES

Addressable Alarm Acknowledgment Modules

Alarm acknowledgement plates with switch and LED indication (on some models).

- FlashScan protocol
- Clipsal style switch plate
- Horizontal & Vertical options

Part #	Description
FG-05-009	AAM/LP/V – AAM module, vertical orientation
FG-05-010	AAM/LP/VL – AAM module, vertical orientation with LED
FG-05-014	AAM/LP/HL – AAM module, horizontal orientation with LED

Requires external sounder to complete AAM function

FLAME DETECTORS

Front Viewing Flame Detectors – Die Cast Zinc Alloy

- IR2, IR3 or UV/IR2 versions
- Die Cast Zinc Alloy housing material

Part #	Description
FG-62-007	IR2 Front Viewing Flame Detector
FG-62-014	IR3 Front Viewing Flame Detector
FG-62-018	UV/IR2 Front Viewing Flame Detector

Requires adjustable mounting bracket

Flameproof (Exd) Front Viewing Flame Detectors – Aluminium Alloy

- IR2, IR3 or UV/IR2 versions
- Copper free Aluminium housing material

Certified to IEC:-
- ✓ Ex d-IIC T4 Gb
- ✓ Ex tb IIIC T135^{o}C Db IP66 A21

Certified to ATEX:-
- ✓ Ex d-II G D T4

Part #	Description
FG-62-012	IR2 Front Viewing Flame Detector
FG-62-016	IR3 Front Viewing Flame Detector
FG-62-019	UV/IR2 Front Viewing Flame Detector

Requires adjustable mounting bracket

Flameproof (Exd) Front Viewing Flame Detectors – 316 Stainless Steel

- IR2, IR3 or UV/IR2 versions
- 316 Stainless Steel housing material

Certified to IEC:-
- ✓ Ex d-IIC T4 Gb
- ✓ Ex tb IIIC T135^{o}C Db IP66 A21

Certified to ATEX:-
- ✓ Ex d-II G D T4

Part #	Description
FG-62-013	IR2 Front Viewing Flame Detector
FG-62-017	IR3 Front Viewing Flame Detector
FG-62-020	UV/IR2 Front Viewing Flame Detector

Requires adjustable mounting bracket

FLAME DETECTOR ACCESSORIES

Flame Detector Weather shields

Stainless steel weather covers to help protect flame detectors from dust and rain.

- 316 or 304 Stainless Steel options

Part #	Description
FG-62-039	Stainless Steel (304) to suit front view zinc alloy flame detectors
FG-62-040	Stainless Steel (304) to suit Exd flame detectors
FG-62-041	Stainless Steel (316) to suit Exd flame detectors

Adjustable Mounting Brackets

Mounting bracket to suit all front viewing flame detectors

- 316 or 304 Stainless Steel option
- Provides tilt and angle adjustment

Part #	Description
FG-62-037	Adjustable mounting bracket, (304) Stainless Steel
FG-62-036	Adjustable mounting bracket, (316) Stainless Steel

Accessories

Part #	Description
FG-62-038	Electrical Isolation mount

Flame Detector Test Unit

- Portable with rechargeable battery pack & charger
- Wide spectrum output. UV, Visible, IR and mid-IR. Compatible with UV, IR, IR2, IR3, UV/IR2 flame detectors
- Selectable output; Constant, Regular flash, Irregular flash

Part #	Description
FG-62-050	Flame simulator

XCD GAS DETECTORS

Sensepoint XCD gas detectors

The Sensepoint XCD range of fixed gas detectors is used to monitor areas where flammable, oxygen deficiency and toxic gasses may pose a hazard to working environments. XCD is designed for a broad spectrum of industrial applications with a comprehensive choice of features and benefits in a cost effective package.

- AS3786 approved
- Includes field replaceable sensor
- Built in sounder
- N/A and N/C Alarm contacts
- Interconnect up to 24 units

Certified to IEC:-
- II 2G Ex d-IIC t
- Ex d IIC T4 Gb. T6(Ta -40°C to +65°C)
- Ex tb IIIC T85^{o}C Db IP66

Certified to ATEX:-
- Ex d IIC T4 GD T6(Ta -40°C to +65°C)
- Ex tb IIIC T85^{o}C Db IP66

Part #	Description
FG-61-006	XCD Flammable CAT, 0-100%LEL with Aluminium Alloy, M20 Entry
FG-61-013	XCD Flammable CAT 0-100%LEL with 316 Stainless Steel, M20 Entry
FG-61-007	XCD CH4(Methane) IR, 0-100%LEL with Aluminium Alloy, M20 Entry
FG-61-014	XCD CH4(Methane) IR, 0-100%LEL with 316 Stainless Steel, M20 Entry
FG-61-008	XCD Oxygen, 25.0%/Vol with Aluminium Alloy, M20 Entry
FG-61-015	XCD Oxygen, 25.0%/Vol with 316 Stainless Steel,, M20 Entry
FG-61-009	XCD Hydrogen Sulphide 0-50ppm (10.0 to 100.0ppm) with Aluminium Alloy, M20 Entry
FG-61-016	XCD Hydrogen Sulphide 0-50ppm (10.0 to 100.0ppm) With 316 Stainless Steel, M20 Entry
FG-61-010	XCD Carbon Monoxide 0-500ppm (100 to 1000ppm) with Aluminium Alloy, M20 Entry
FG-61-017	XCD Carbon Monoxide 0-500ppm (100 to 1000ppm) with 316 Stainless Steel, M20 Entry
FG-61-011	XCD Hydrogen 0-1000ppm with Aluminium Alloy, M20 Entry
FG-61-018	XCD Hydrogen 0-1000ppm with 316 Stainless Steel, M20 Entry
FG-61-012	XCD CO^{2}(Carbon Dioxide) IR 0-2%VOL with Aluminium Alloy, M20 Entry
FG-61-019	XCD CO^{2}(Carbon Dioxide) IR 0-2%VOL with 316 Stainless Steel, M20 Entry

Unipoint Gas Detector Controllers
DIN rail mounted controller for Sensepoint XCD gas detectors.

- 2 or 3 wire 4-20mA inputs
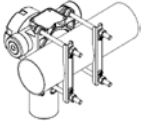- 3 x alarm, 1 x fault relays

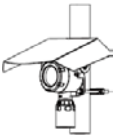| Part #	Description
FG-61-001	UniPoint Controller (mV input Version) DIN rail mounting
FG-61-002	UniPoint Controller (mA input Version) DIN rail mounting

MOUNTING ACCESSORIES

Sensepoint XCD Duct Mounting Kit

Part #	Description
FG-61-020	Sensepoint XCD Duct Mounting Kit

Sensepoint XCD Pipe Mounting Kit

Part #	Description
FG-61-021	Sensepoint XCD Pipe Mounting Bracket

Sensepoint XCD Sunshade/Deluge Kit

Part #	Description
FG-61-022	Sensepoint XCD Sunshade/Deluge Protection

Sensepoint XCD Calibration Cap

Part #	Description
FG-61-023	Sensepoint Calibration Cap

Sensepoint XCD Collecting Cone

Part #	Description
FG-61-024	Sensepoint Collecting Cone For use with lighter than air gases

FIBRE OPTIC LINEAR HEAT DETECTION

AP Sensing DTS Fibre Optic Linear Heat Detection

AP Sensing's fiber optic, linear heat detection systems leave no area unmonitored and display the real-time temperature and heat transfer of the entire area at once. Based on the quantum mechanical RAMAN-effect and a patented code-correlation measurement technique AP Sensing's "Linear Heat Series" measures an accurate temperature profile along the optical fiber over several thousand meters with measurements every 10 seconds. With an extremely high level of integration and unique optical assembly technology, AP Sensing offers you full protection combined with worry free permanent operation.

Enabling fast, reliable and cost-effective sensing through highly integrated optical measurement systems. AP Sensing DTS will provide temperature monitoring for;

- Fire Detection
- Power cable monitoring
- Oil & Gas downhole performance monitoring
- Pipeline leakage detection

Suitable applications include large distributed manufacturing facilities, refineries, power plants, silos, warehouses, cold stores, conveyor belt systems, cable trays and tunnels

- Suitable for Harsh and Hazardous areas
- Continuous temperature monitoring
- Ability to integrate into management systems

GENERAL PURPOSE LINEAR HEAT DETECTION

System Sensor Linear Heat Detection

System Sensor's linear heat detection system is a fixed temperature device consisting of the conductor cable and an EOL box.

When heated to the rated temperature, the heat sensitive polymer insulation melts allowing the inner conductors to contact each other initiating an alarm state.

This type of detection is widely used in industrial, petrochemical, refinery and power generation plants.

- Continuous sensitivity along the length of cable
- Easy to install, test and splice

68 deg C

Part #	Description
FG-59-006	LD-68-155(100m) – Linear Heat Cable 68deg, 100m roll
FG-59-007	LD-68-155(200m) – Linear Heat Cable 68deg, 200m roll
FG-59-008	LD-68-155(500m) – Linear Heat Cable 68deg, 500m roll
FG-59-009	LD-68-155(1000m) – Linear Heat Cable 68deg, 1000m roll

78 deg C

Part #	Description
FG-59-010	LD-78-172(100m) – Linear Heat Cable 78deg, 100m roll
FG-59-011	LD-78-172(200m) – Linear Heat Cable 78deg, 200m roll
FG-59-012	LD-78-172(500m) – Linear Heat Cable 78deg, 500m roll
FG-59-013	LD-78-172(1000m) – Linear Heat Cable 78deg, 1000m roll

88 deg C

Part #	Description
FG-59-014	LD-88-190(100m) – Linear Heat Cable 88deg, 100m roll
FG-59-015	LD-88-190(200m) – Linear Heat Cable 88deg, 200m roll
FG-59-016	LD-88-190(500m) – Linear Heat Cable 88deg, 500m roll
FG-59-017	LD-88-190(1000m) – Linear Heat Cable 88deg, 1000m roll

105 deg C

Part #	Description
FG-59-018	LD-105-220(100m) – Linear Heat Cable 105deg, 100m roll
FG-59-019	LD-105-220(200m) – Linear Heat Cable 105deg, 200m roll
FG-59-020	LD-105-220(500m) – Linear Heat Cable 105deg, 500m roll
FG-59-021	LD-105-220(1000m) Linear Heat Cable 105deg, 1000m roll

Accessories

Part #	Description
FG-59-004	8687/EOL – 47k End of line box
FG-59-005	MB – LHD Junction Box to suit linear heat cable

HARSH AREA LINEAR HEAT DETECTION

System Sensor Linear Heat Detection with Nylon coating

System Sensor's linear heat detection system is a fixed temperature device consisting of the conductor cable and an EOL box.

When heated to the rated temperature, the heat sensitive polymer insulation melts allowing the inner conductors to contact each other initiating an alarm state.

This type of detection is widely used in industrial, petrochemical, refinery and power generation plants.

- Continuous sensitivity along the length of cable
- Easy to install, test and splice
- Chemical resistant
- UV resistant

68 deg C

Part #	Description
FG-59-023	LDN-68-155(100m) – Linear Heat Cable 68deg, 100m roll
FG-59-024	LDN-68-155(200m) – Linear Heat Cable 68deg, 200m roll
FG-59-025	LDN-68-155(500m) – Linear Heat Cable 68deg, 500m roll
FG-59-026	LDN-68-155(1000m) – Linear Heat Cable 68deg, 1000m

78 deg C

Part #	Description
FG-59-027	LDN-78-172(100m) – Linear Heat Cable 78deg, 100m roll
FG-59-028	LDN-78-172(200m) – Linear Heat Cable 78deg, 200m roll
FG-59-029	LDN-78-172(500m) – Linear Heat Cable 78deg, 500m roll
FG-59-030	LDN-78-172(1000m) – Linear Heat Cable 78deg, 1000m

88 deg C

Part #	Description
FG-59-031	LDN-88-190(100m) – Linear Heat Cable 88deg, 100m roll
FG-59-032	LDN-88-190(200m) – Linear Heat Cable 88deg, 200m roll
FG-59-033	LDN-88-190(500m) – Linear Heat Cable 88deg, 500m roll
FG-59-034	LDN-88-190(1000m) – Linear Heat Cable 88deg, 1000m

105 deg C

Part #	Description
FG-59-035	LDN-105-220(100m) – Linear Heat Cable 105deg, 100m
FG-59-036	LDN-105-220(200m) – Linear Heat Cable 105deg, 200m
FG-59-037	LDN-105-220(500m) – Linear Heat Cable 105deg, 500m
FG-59-038	LDN-105-220(1000m) Linear Heat Cable 105deg, 1000m

Accessories

Part #	Description
FG-59-004	8687/EOL – 47k End of line box
FG-59-005	MB – LHD Junction Box to suit linear heat cable

VESDA DETECTORS

VESDA LaserQ

- Up to 100m2
- IP30 Enclosure
- USB port for PC connection
- AutoLearn™ Smoke
- Pre-alarm, Alarm and Fault relays

Part #	Description
FG-55-008	VLQ-100 - VESDA VLQ with relays & USB
FG-55-009	VSP-890 – VLQ Surface Mount Kit
FG-55-010	VSP-891 – VLQ Flush Mount Kit

VESDA LaserFOCUS

- Single Pipe
- Single Zone
- Instant Fault Finder™
- AutoLearn™ Smoke
- AutoLearn™ Flow

Part #	Description
FG-55-001	VLF-250 - Relays Only
FG-55-002	VLF-500 – Relays Only
FG-55-004	VIC-020 – Multi-function Card – 2 x relays, 1 x input
FG-55-005	VIC-030 – Multi-function Card – 3 x relays, 1 x input

VESDA LaserCOMPACT

- Single Pipe
- Single Zone
- AutoLearn™ Smoke

Part #	Description
FG-55-011	VLC-500 – Relays Only
FG-55-012	VLC-505 – VESDAnet Version
FG-55-013	VLX-100 – VLC in EEX Housing inc flame arrestors

VESDA LaserPLUS

- Four Pipes
- One Zone
- AutoLearn™ Smoke

Part #	Description
FG-55-021	VLP-000 – 3 x Blank plates
FG-55-022	VLP-002 – 2 x Blank plates & Display
FG-55-023	VLP-012 – 1 Blank plate & Display & Programmer
FG-55-024	VLP-400 with Fire 1 & OK LED's fitted

VESDA LaserSCANNER with 7 Relay Termination Card

- Four Pipes
- Four Zones
- AutoLearn™ Smoke

Part #	Description
FG-55-031	VLS-200 – 3 x Blank plates
FG-55-032	VLS-204 – 2 x Blank plates & Display
FG-55-033	VLS-210 – 2 x Blank plates & Programmer
FG-55-034	VLS-214 – 1 Blank plate & Display & Programmer
FG-55-035	VLS-700 with Fire 1 & OK LED's fitted

VESDA LaserSCANNER with 12 Relay Termination Card

- Four Pipes
- Four Zones
- AutoLearn™ Smoke

Part #	Description
FG-55-040	VLS-300 – 3 x Blank plates
FG-55-041	VLS-304 – 2 x Blank plates & Display
FG-55-042	VLS-310 – 2 x Blank plates & Programmer
FG-55-043	VLS-314 – 1 Blank plate & Display & Programmer

VESDA Laser INDUSTRIAL

- Four Pipes
- Four Zones
- AutoLearn™ Smoke

Part #	Description
FG-55-064	VLI-880 – VESDA VLI with Relays
FG-55-065	VLI-885 – VESDA VLI with VesdaNET

VESDA Accessories

Part #	Description
FG-55-051	VHH-100 – Hand Held Programmer inc Cable
FG-55-052	VHX-1200 – HLI – Wall mounted inc VESDAnet socket
FG-55-053	VHX –0200 – HLI – VESDAnet Sliding Windows
FG-55-050	VHX-1420-HFS – Modbus HLI to suit VESDAnet g/w

Remote Units

Part #	Description
3357	VRT-000 Remote box with escutcheon only no blank plate
2991	VRT-100 Remote box fitted with programmer
2881	VRT-200 Remote box fitted with VLP display with 7 relays
5644	VRT-300 Remote box fitted with VESDAnet socket
2946	VRT-400 Remote box fitted with Scanner display and 7 relays
10870	VRT-700 Remote box fitted with Scanner display no relays
10871	VRT-800 Remote box fitted with Scanner display and 12 relays
FG-55-036	VRT-900 Remote box fitted with Blank Plate and 12 Scanner relays
FG-55-007	VRT-V00 – VLF Remote display with RTC7

ASPIRATED DETECTOR PIPE & FITTINGS

An extensive range of aspirated detector pipe, bends, fittings and sampling points to enable the creation of the required pipe and detection network.

Part #	Description
1761	E700-P – VESDA Pipe per 4 metre length
1762	E700-PJ – Pipe junction fitting
1764	E700-LB – Large radius bend (150mm)
1765	E700-SB – Small radius bend (90mm)
1766	E700-J - "J" pipe work adaptor
1767	E700-Y – "Y" pipe work adaptor
1768	E700-EC – End cap
10645	E700-T – ABS solid "T" piece
FG-55-075	E700-PC – Pipe clip single point fix
1770	E700-TA – Trunk adaptor for capillary tubes
1771	E700-CSC – Connector for capillary tube
1772	E700-CT - Capillary tube 5.2mm ID, 8mm OD (per m)
1769	E700-SP – Sampling point for capillary tube end
1775	E700-SP-DCL – Sampling hole decal (200per roll)
1776	E700-SPLR – Sampling point label RED (each)
1773	E700-HASP – Heat Activated Sampling Point
3386	E700-SRB – Standard base for HASP (use extra CSC)
FG-55-076	VSP-860 – Freezer sampling point

OSID Open Area Detection

OSID Emitters

- Dual frequency beam
- Multiple emitters for power input
- Ball & Socket adjustment
- Laser alignment tool

Part #	Description
FG-02-032	OSE-SP OSID Emitter Standard Power/Battery Version
FG-02-033	OSE-SPW OSID Emitter Standard Power/Wired Version
FG-02-034	OSE-HPW OSID Emitter High Power/Wired Version

Accessories

Part #	Description
FG-01-086	OSID-EHE Emitter Environmental Housing
FG-01-087	OSID-WG Wire Cage
FG-01-088	OSE-ACF Anti-Condensation film to suit OSID-EHE (10pk)

OSID Imagers

- CMOS chip imager
- Multiple angle of coverage
- Ball & socket adjustment

Part #	Description
FG-02-029	OSI-10 OSID Imager 7 degree coverage (min 25m)
FG-02-030	OSI-45 OSID Imager 38 degree coverage
FG-02-031	OSI-90 OSID Imager 80 degree coverage

Accessories

Part #	Description
FG-01-085	OSID-EHI Imager Environmental Housing
FG-01-087	OSID-WG Wire Cage
FG-01-089	OSEH-ACF Anti-condensation to suit OSID-EHI (10pk)

OSID Installation tools

Part #	Description
FG-01-078	OSID-INST OSID Install Kit

NPS SERIES POWER SUPPLY

NPS Series Stand-Alone Power Supplies
24VDC power supply and battery charger in enclosure. Ideal for use as a remote power supply for external equipment such as VESDA detectors.

- Include display module for indication and battery test
- Includes fault output relays
- Certified to AS4428.5

Part #	Description
11961	NPS-2/BB – 2.7A power supply in cabinet. Fits 12AH batteries (230mm H x 350mm W x 130mm D) – Oyster Grey
11963	NPS-5/BB – 5.6A power supply in cabinet. Fits 40AH batteries (350mm H x 440mm W x 225mm D) – Oyster Grey
11959	NPS-11/BB – 11.7A power supply in cabinet. Fits 65AH batteries (887mm H x 610mm W x 285mm D) – Charcoal Texture

NPS Series Power Supply on Slim line Chassis
Panel mount 24VDC power supply and battery charger.

- Certified to AS4428.5
- Includes fault output relays
- Replaces PS243

Part #	Description
11910	NPS-2S – 2.7A Stand-alone Power Supply
11911	NPS-5S – 5.6A Stand-alone Power Supply
11912	NPS-11S – 11.7A Stand-alone Power Supply

Accessories

Part #	Description
11921	NPS-DISP – Display kit to suit NPS power supplies, provides status and battery test switch

NPS Series Power Supply on Wide line Chassis
Panel mount 24VDC power supply and battery charger.

- Certified to AS4428.5
- Includes fault output relays
- Replaces PS249

Part #	Description
11913	NPS-5 – 5.6A Stand-alone Power Supply
11914	NPS-11 – 11.7A Stand-alone Power Supply

Accessories

Part #	Description
11921	NPS-DISP – Display kit to suit NPS power supplies, provides status and battery test switch

BATTERIES

Panel Batteries
Sealed Lead Acid (SLA) batteries to provide secondary power supply to equipment.

- Approved to AS1603.4

NOTE: 2 x batteries required for 24V system

Part #	Description
FG-65-001	BATT/1.3 – 1.3AH battery (97mm L x 43mm W x 58mm H)
FG-65-002	BATT/7 – 7AH battery (151mm L x 65mm W x 101mm H)
FG-65-003	BATT/12 – 12AH battery (151mm L x 95mm W x 101mm H)
FG-65-004	BATT/18 – 18AH battery (181mm L x 77mm W x 167mm H)
FG-65-005	BATT/26 – 26AH battery (175mm L x 166mm W x 125mm H)
FG-65-006	BATT/33 – 33AH battery (195mm L x 130mm W x 180mm H)
FG-65-007	BATT/40 – 40AH battery (197mm L x 165mm W x 175mm H)
FG-65-008	BATT/85 – 85AH battery (305mm L x 168mm W x 210mm H)
FG-65-009	BATT/100 – 100AH battery (330mm L x 172mm W x 221mm H)
FG-65-010	BATT/150 – 150AH battery (485mm L x 172mm W x 240mm H)

SOLO TEST KITS

SOLO Smoke Detector Kits

Solo 'Starter Packs' for use in testing smoke detectors only.

Part #	Description
FG-01-011	SOLO808 – Smoke test 'Starter Pack' exc bag (4m reach)
FG-01-012	SOLO809 – Smoke test 'Starter Pack' exc bag (6m reach)
FG-01-013	SOLO811 – Smoke test and removal kit inc bag (6m reach)

SOLO Smoke & Heat Detector Kits

Solo Detector test kits for use in testing smoke & heat detectors.

Part #	Description
FG-01-014	SOLO814 – Smoke & Mains Heat detector test and removal kit (6m reach)
FG-01-015	SOLO822 – Smoke & Cordless Heat detector test and removal kit (6m reach)
FG-01-016	SOLO823 – Smoke & Cordless Heat detector test and removal kit (9.3m reach)

SOLO Extension Poles

Extension pole to suit all SOLO kits

Part #	Description
FG-01-017	SOLO100 – 4 section telescopic pole (4.5m)
FG-01-018	SOLO108 – 2 section telescopic pole (2.5m)
FG-01-019	SOLO101 – 1 section extension pole (1.13m)

SOLO Tools

Add-on tools for the SOLO kits to add functionality to kits.

Part #	Description
FG-01-020	SOLO200 – Universal Detector Removal Tool
FG-01-021	SOLO330 – Aerosol Smoke & CO dispenser
FG-01-022	SOLO461 – Cordless Heat detector tester
FG-01-023	SOLO423 – Heat detector tester 110V/120V
FG-01-024	SOLO424 – Heat detector tester 240V

SOLO AEROSOLS

SOLO Aerosols

A range of aerosols for testing and cleaning a variety of detectors. There are varieties which are suitable for hand and\or dispenser application

Part #	Description
FG-01-027	SMOKE-T – Aerosol smoke detector tester, 250ml (for handheld and/or dispenser use)
FG-01-030	SMOKE-CO – Aerosol CO detector tester, 4L (dispenser use)
FG-01-031	SMOKE-D – Aerosol 'duster' for cleaning of detectors, 250ml (for handheld & dispenser use)
FG-01-028	SMOKE-S – Chekkit aerosol smoke detector tester, 35ml (for handheld use)
FG-01-029	SMOKE-C – Chekkit aerosol smoke detector tester, 150ml (for handheld use)

SOLO Smoke Sabre

Smoke Sabre is a functional aerosol smoke check for testing smoke detectors quickly and cost effectively at a flick-of-the-wrist. Low cost and simple, it is a revolutionary tester that eliminates the risk of harmful residue

Part #	Description
FG-01-053	SMOKESABRE – Smoke detector tester with retractable 'funnel', 150ml

OTHER DETECTOR TEST & REMOVAL EQUIPMENT

Smoke Pens
Smoke pens are ideal for testing MASD systems and smoke detectors. They may also be used in areas of high airflow to determine airflow direction.

Part #	Description
11660	Smoke Pen and refills – c/w pk of 6 refills
11661	Smoke Pen refills (pk of 6)

Test Magnets
Telescopic test magnet to provide alarm test on System Sensor conventional and addressable detectors

Part #	Description
3958	System Sensor telescopic test magnet

System Sensor Detector Removal Tools
Removal tools and accessories designed specifically for the System Sensor and Notifier range of conventional and addressable detectors

Part #	Description
4557	XP-4 – Extension poles, 3 x 1.5m poles for XR2(B) kit
11460	XR-2B – Removal tool for 100B/800 series detectors

Accessories

Part #	Description
11520	T55-127-000 – Replacement cup for XR2B

DETECTOR ACCESSORIES

Stainless Steel Detector Guard

Part #	Description
10007	Stainless Steel square detector guard (110mm x 110mm x 60mm)

Wire Detector Guard
Protects detectors against tamper and accidental damage.

Part #	Description
FG-01-005	STI-9604 – White wire detector guard

MODULE ENCLOSURES

XP Module DGP enclosures

Enclosure for XP multi input/output modules when being mounted remote from the FACP.

- APO grey
- Multiple rear, top and bottom knockout cable entries

Part #	Description
MA-02-005	DGP1B – DGP enclosure to mount 2 x XP modules (261mm H x 268mm W x 90mm D)
MA-02-006	DGP2B – DGP enclosure to mount 4 x XP modules (431mm H x 268mm W x 90mm D)

Control Panel Enclosure

- Powder coated charcoal texture
- Includes blank inner door and gear tray

Part #	Description
FG-72-001	18U complete cabinet with window (887mm H x 610mm W x 285mm D)
FG-72-002	28U complete cabinet with window (1330mm H x 610mm W x 380mm D)
FG-72-003	40U complete cabinet with window (1865mm H x 610mm W x 380mm D)
FG-72-018	18U complete cabinet with solid outer door (887mm H x 610mm W x 285mm D)
FG-72-019	28U complete cabinet with solid outer door (1330mm H x 610mm W x 380mm D)
FG-72-020	40U complete cabinet with solid outer door (1865mm H x 610mm W x 380mm D)

Battery or Panel Extension Enclosures

- Powder coated charcoal texture
- Knockouts to suit panel enclosure

Part #	Description
MA-01-018	CAB650/BB – Battery box to suit CAB650 and CAB900 (250mm H x 450mm W x 190mm D)
MA-01-024	18U/BB – Battery box to suit 18U (443mm H x 610mm W x 285mm D)
12100	28U/BB – Battery box to suit 28U & 40U (300mm H x 610mm W x 380mm D)

Weatherproof Enclosures

Surface mount outdoor enclosure in red.

- Ideally suited as WIP handset enclosures
- Thumb turn handle (non locked)

Cabinet Dimensions:
- 300mm H x 200m W x 150mm D

Part #	Description
FG-54-002	WIP/BOX/IP55 – Weather proof (IP55) surface mount enclosure
FG-54-003	WIP/BOX/IP66 – Weather proof (IP66) surface mount enclosure

Annunciator Mounting Enclosures

A range of mounting enclosures for a number of annunciators. Available in surface and flush mount versions.

Part #	Description
FG-72-005	ABF-1B – Flush mount 1 x annunciator enclosure
FG-72-006	ABF-1DB – Flush mount 1 x annunciator enclosure with 003 keyed door
FG-72-007	ABF-2DB – Flush mount 2 x annunciator enclosure with 003 keyed door
FG-72-008	ABF-2B – Flush mount 2 x annunciator enclosure
FG-72-009	ABF-4B – Flush mount 4 x annunciator enclosure
FG-72-010	ABS-1B – Surface mount 1 x annunciator enclosure Note: Cannot install LCD-80
FG-72-011	ABS-1TB – Surface mount 1 x annunciator enclosure with Trim
FG-72-012	ABS-2B – Surface mount 2 x annunciator enclosure
FG-72-013	ABS-2D – Surface mount 2 x annunciator enclosure with 003 keyed door
FG-72-014	ABS-4D – Surface mount 4 x annunciator enclosure with 003 keyed door

MOUNTING CHASSIS & BRACKETS

XP module mounting chassis

The XP module mounting chassis provides a method for simple installation of addressable XP modules into a Notifier or 3rd party FACP or DGP.

Part #	Description
MW-02-013	CHS-2 – Mounting chassis for up to 2 x XP modules
MW-02-031	CHS-4 – Mounting chassis for up to 4 x XP modules Designed to allow fitting into CAB650/CAB900
MW-02-033	CHS-6 – Mounting chassis for up to 6 x XP modules Designed to allow fitting into 18U/28U/40U

Low-Profile mounting chassis

The low-profile mounting chassis range provides a uniform mounting assembly for almost all Notifier panel modules enabling simple installation of upgrade modules.

The chassis is compatible with the following devices;
- ELCM & LEM Loop modules
- Relay modules
- DA Series occupant warning system
- + others

Part #	Description
MW-02-022	CHS-1L – Low profile chassis
MW-02-023	CHS-2L – Low profile chassis
11976	CHS-3L – Low profile chassis Designed to allow fitting into CAB650/CAB900
MW-02-025	CHS-4L – Low profile chassis Designed to allow fitting into 18U/28U/40U

ASE Brackets

A range of brackets to suit common range of ASE equipment.

- Mounts into standard annunciator slot(s)

Part #	Description
ASY-02-040	ASE bracket to suit Romteck, Almos and Centaur II
ASY-02-042	ASE bracket to suit Code Red, Almos (shallow)
ASY-02-038	ASE bracket to suit Centaur
11972	ASE bracket to suit NTFast switch plate

CABINET SURROUNDS

Panel Surrounds

Charcoal texture panel surrounds when recessing cabinets into walls etc.

- Powder coated charcoal texture
- 50mm edging

Part #	Description
MW-01-017	FS/CAB650 – Flush surround to suit CAB 650
MW-01-025	FS/CAB900 – Flush surround to suit CAB900
10853	FS/18U – Flush surround to suit 18U
10854	FS/28U – Flush surround to suit 28U

NOTE: Contact your Notifier systems consultant for alternate (custom) dimensions

INSTALLATION CABLE

Fire Rated Installation Cable
Twisted 2-hour fire rated installation cable

- AS3103 and ASS008 approved
- Easy to strip and terminate
- Screen versions available

Part #	Description
FG-64-001	FR-0.75-2C-250 – 2-core x 0.75mm^2, 250m roll
FG-64-002	FR-0.75-2C-500 – 2-core x 0.75mm^2, 500m roll
FG-64-003	FR-1.00-2C-250 – 2-core x 1.00mm^2, 250m roll
FG-64-004	FR-1.00-2C-500 – 2-core x 1.00mm^2, 500m roll
FG-64-005	FR-1.50-2C-250 – 2-core x 1.50mm^2, 250m roll
FG-64-006	FR-1.50-2C-500 – 2-core x 1.50mm^2, 500m roll
FG-64-007	FR-0.75-2CS-500 – 2-core + screen x 0.75mm^2, 500m roll
FG-64-008	FR-1.50-2CS-500 – 2-core + screen x 1.50mm^2, 500m roll
FG-64-021	FR-2.50-2C-250 – 2-core x 2.50mm^2, 250m roll
FG-64-009	FR-2.50-2C-500 – 2-core x 2.50mm^2, 500m roll

Red TPS Installation Cable

- Easy to strip and terminate
- Twisted & flat versions available

Part #	Description
FG-64-010	TPS-0.75-2C-200 – 2-core flat x 0.75mm^2, 200m roll
FG-64-019	TPS-0.75-2C-500 – 2-core flat x 0.75mm^2, 500m roll
FG-64-011	TPS-1.50-2C-200 – 2-core flat x 1.50mm^2, 200m roll
FG-64-020	TPS-1.50-2C-500 – 2-core flat x 1.50mm^2, 500m roll
FG-64-012	TPS-1.50-2CW-200 – 2-core flat x 1.50mm^2 with white trace , 200m roll
FG-64-013	TPS-1.50-2CT-200 – 2-core twisted x 1.50mm^2, 200m roll
FG-64-016	TPS-1.50-2CT-500 – 2-core twisted x 1.50mm^2, 500m roll
FG-64-017	TPS-1.50-2CTS-200 – 2-core twisted screened x 1.5mm2, 200m roll
FG-64-018	TPS-1.50-2CTS-500 – 2-core twisted screened x 1.5mm2, 500m roll

INTRINSICALLY SAFE BARRIERS & ISOLATORS

MTL5561 2-channel Galvanic Isolator

Intrinsically safe interface for conventional detection circuits.

Certified to IEC:-
- II 1G Ex ia-IIC T4 Ga. -40°C < Ta < +60°C
- Zones 0

Part #	Description
FG-01-055	MTL5561 – 2 channel galvanic isolator

MTL7728+ 1-channel Zener Barrier

Intrinsically safe interface for notification devices such as sounders and beacons.

Certified to IEC:-
- II 1G Ex ia-IIC T4 Ga. -40°C < Ta < +60°C
- Zones 0

Part #	Description
FG-01-054	MTL7728+ 1 channel zener barrier

Y2221 1-channel Galvanic Isolator

Intrinsically safe interface for addressable devices and to be used with the IMX-1E translator module.

Certified to IEC:-
- II 1G Ex ia-IIC T4 Ga. -40°C < Ta < +60°C
- Zones 0

Part #	Description
FG-01-057	Y2221 – 1 channel galvanic isolator to suit addressable devices

See page 13 for Addressable I.S detectors and translator module

DX070 Enclosure for intrinsically safe barriers

Required to provide mechanical protection for barriers and isolators

Part #	Description
FG-72-004	DX070 Enclosure for IS barriers/isolators

SURGE SUPPRESSION MODULES

Surge Suppression Modules

Surge suppression modules will reduce the risk of potential high voltage spikes on power and communication lines.

Part #	Description
12050	SURGE/MAIN – surge suppression and line filter for 240V mains (10A)
12051	SURGE/AZF – Surge suppression for 4 x AZF (conventional zone) circuits
12049	SURGE/SLC – Surge Suppression for SLC loop. Protect both A & B channels
12048	SURGE/RS485 – Surge suppression for RS485 communications.
12047	SURGE/24V – 2-channel Surge suppression for 24V circuits. Can be used for ring power, ancillary power and NACs.

FLOW SWITCHES

WFD Series Water flow Switch

System Sensor's WFD series is compatible with schedule 10 through 40 steel pipes, sizes 2″ through 8″, and can be mounted in a vertical or horizontal position.

Part #	Description
FG-63-001	WFD20E – 2" Flow Switch
FG-63-002	WFD25E – 2.5" Flow Switch
FG-63-003	WFD30-2E – 3" Flow Switch
FG-63-004	WFD35E – 4" Flow Switch
FG-63-005	WFD40E – 4" Flow Switch
FG-63-006	WFD50E – 5" Flow Switch

PRESSURE SWITCHES

EPS Series Alarm Pressure Switch

System Sensor EPS10 Series switches are designed for use in wet, dry, deluge, and pre-action automatic sprinkler systems to indicate a discharge from a sprinkler.

Part #	Description
FG-63-020	EPS10-1 –Pressure switch 4-20PSI, 1x alarm relay
FG-63-021	EPS10-2 –Pressure switch 4-20PSI, 2x alarm relays
FG-63-022	EPS40-1 –Pressure switch 10-100PSI, 1x alarm relay
FG-63-023	EPS40-2 –Pressure switch 10-100PSI, 2x alarm relays
FG-63-024	EPS120-1 –Pressure switch 100-200PSI, 1x alarm relay
FG-63-025	EPS120-2 –Pressure switch 100-200PSI, 2x alarm relays

TAMPER SWITCHES

OSY2 Valve monitor device

System Sensor's OSY2 is used to monitor the open position of an Outside Screw and Yoke (OS&Y) type gate valve.

Part #	Description
FG-63-029	OSY2 – Valve monitor device for outside screw & yko type gate valve

PIBV2 Valve monitor device

System Sensor's PIBV2 supervisory switch monitors the open position of post indicator and butterfly control valves.

Part #	Description
FG-63-030	PIBV2 – Valve monitor device for post indicator and butterfly control valves

PSP1 – Valve monitor device

System Sensor's PSP1 plug-in switch is a special application supervisory switch designed for applications where no other type of listed valve supervisory switch can be used.

Part #	Description
FG-63-031	PIBV2 – Valve monitor device for applications where no other type of listed valve

GENERIC

11399	IFS-1125C - Supervision module for monitored outputs for connection to relays, solenoids and reversing sounders
908	Replacement switch for extinguishant release master isolate
10369	Replacement switch for extinguishant release local control station
907	Replacement lamp for extinguishant release local control station (10369) or master isolate switch (908)
906	Hinged Cover for extinguishant release local control station (10369) or master isolate switch (908)

POWER SUPPLIES

1364	Remote display kit for PS24x power supplies *** **Limited Availability** ***
11708	PBC-70 - 2.6 Amp 24V power supply (non-battery backed)
11709	PBC-150 - 5.6 Amp 24V power supply (non-battery backed)
11710	SP-320 - 11.7 Amp 24V power supply (non-battery backed)
11921	NPS-DISP - Display kit for NPS power supplies, provides indication and battery test switch
11907	NPS-2S/2800 - 2.6A PSU on slim-line (PS243) chassis for connection to AFP-2800
11915	NPS-5S/2800 - 5.6A PSU on slim-line (PS243) chassis for connection to AFP-2800
11917	NPS-5/2800 - 5.6A PSU on wide-line (PS249) chassis for connection to AFP-2800
11918	NPS-11/2800 - 11.7A PSU on wide-line (PS249) chassis for connection to AFP-2800
ASY-02-021	Power Supply Interface to suit IFS-2600 + AFP-2800

NFS 2-8 SERIES FACP

11408	020 - 417 - Active End of Line monitoring Module
11409	020-710-022 - Spare text insert kit
11410	020-745-008 - Spare installation kit c/w 8 capacitive EOL's battery leads, allen key, panel controls key and sounder EOL resistors.

IFS-400 SERIES FACP

2253	IFS-400/2 - Keypad Mylar *** **Limited Availability** ***
2254	IFS-400/4 - Keypad Mylar *** **Limited Availability** ***
2319	IFS-400/4 - Main Board *** **Limited Availability** ***

IFS-008 SERIES FACP

10489	IFS-008H - Main Termination Board *** **Limited Availability** ***	
5472	IFS-815A - 8 way relay card with common fault isolate O/P	NO LONGER AVAILABLE
1140	008/Key - 008 Keypad Mylar	NO LONGER AVAILABLE
550	008/UG - Upgrade kit from 4 zones to 8 zones	NO LONGER AVAILABLE

IFS-888 SERIES FACP

11226	IFS-888E - Main Termination Board *** **Limited Availability** ***	
11039	888/Key - 888 Keypad Mylar	NO LONGER AVAILABLE

IFS-2400 SERIES FACP

10490	IFS-800L - Processor board with date and time (re-worked)	NO LONGER AVAILABLE
10094	IFS-801L5 - Termination board with date and time (re-worked)	NO LONGER AVAILABLE
ASY-01-024	IFS-717E - 8 way relay programmable expansion board kit c/w cables and screws	
1468	IFS-802B - 8 zone display expansion board (re-worked)	NO LONGER AVAILABLE
ASY-01-007	IFS-804 - 8 zone expansion board kit	
430	2400/Key - IFS-2400 keypad membrane	
1371	30V transformer replacement to suit IFS-2400/IFS-2600	NO LONGER AVAILABLE

IFS-2600 SERIES FACP

8039	IFS-2004C - Main display board. NOTE: Common for both versions of IFS-2600	
11291	IFS-2005/IFS-2006 - Main termination/power supply assembly NOTE: to suit IFS-2600 powered by 30V transformer	NO LONGER AVAILABLE
ASY-02-020	IFS-2600 Termination Board Replacement Kit NOTE: to suit IFS-2600 powered by NPS-x power supply	
ASY-02-021	Power Supply Interface to suit IFS-2600 + AFP-2800	
ASY-01-024	RLY8 - 8 way programmable relay expansion kit to suit CAB650/CAB900 c/w cables etc	
ASY-01-003	IFS-816 - 16 zone indication board kit	
ASY-01-007	IFS-804 - 8 zone expansion board kit	
10112	2600/Key - 2600 Keypad membrane	
ASY-01-056	IFS-2624 NPS Upgrade kit	
1371	30V transformer replacement to suit IFS-2400/IFS-2600	NO LONGER AVAILABLE

CFP-16 SERIES FACP

ASY-02-025	CFP-16 CPU\Termination Board Replacement
ASY-02-026	CFP-16 Keypad (AUS) & display
ASY-02-033	NPS-11 Replacement to suit CFP-16
ASY-02-034	NPS-5 Replacement to suit CFP-16
FG-65-012	Replacement Lithium battery for CFP-16 CPU

AFP-2800 SERIES FACP

3608	AFP-2800 - Keypad Membrane	
11627	LIM - Loop Interface Module (IFS-725I)	
ASY-01-044	NIM - Network Interface Module (IFS-725I)	
11584	ELCM-320 - Loop Control Module	
10138	LEM-320 - Loop Expander Module	
11768	2800/FIM - Termination Board	
ASY-02-011	AFP-2802/CPU - CPU and LCD complete	
ASY-02-012	AFP-2800/CPU - CPU and LCD complete	
11621	AZM-8 - 8 zone alarm module plus 4 clean output contacts, 20 - 28VDC, 8 conventional alarm inputs and 4 relay contact outputs	NO LONGER AVAILABLE
10145	SCS-8 - 8 x 3 position switches with 3 x LEDs per switch - e.g. AS1668 fan controls	
10144	ACM-32A - 32 Red LED. E.g. Flow switches, monitors etc.	
10143	ACM-16AT - 16 Switches, 16 Red/Amber LED's eg. Solenoids test switches and Isolate controls	
10556	NCM/W - Network Control Module (Wire)	
10730	NCM/F - Network Control Module - Multi-mode optical fibre	
10691	NCM/SMOF - Network Control Module - Single mode optical fibre	
FG-29-004	HS-NCM-W - Network Control Module (Wire)	
FG-29-005	HS-NCM-MF - Network Control Module (Multi mode fibre)	
FG-29-006	HS-NCM-SF - Network Control Module (Single mode optical fibre)	
FG-29-008	HS-NCM-WMF - Network Control Module (Wire/ Multi-mode fibre)	
FG-29-009	HS-NCM-WSF - Network Control Module (Wire/Single-mode fibre)	
FG-29-011	HS-NCM-MFSF - Network Control Module (Multi-mode/Single-mode optical fibre)	

AFP-1010/AM-2020/AFP-200 SERIES FACP

2699	SIB-NET - 1010/2020 serial interface board; includes two optically isolated printer ports, one optically isolated CRT port; - M2.7 (or higher) EPROM included. Requires one MIB (media interface board)	NO LONGER AVAILABLE
2658	SIB-2048A - Serial interface board for M2.7+ systems; includes: two optically isolated EIA-232 CRT and printer ports, and two EIA-485 serial ports *** **Limited Availability** ***	
2655	LIB-200A - Loop interface board; supports up to 198 intelligent devices. *** **Limited Availability** ***	
2654	LIB-400 - Dual loop interface board; supports up to 396 intelligent devices. *** **Limited Availability** ***	
5407	CPU-2 - Replacement CPU board for the 1010 *** **Limited Availability** ***	
5408	CPU-2020 - Replacement CPU board for the 2020 *** **Limited Availability** ***	
3636	DIA-1010AUS - Replacement backlit DIA for the 1010 *** **Limited Availability** ***	
3637	DIA-2020AUS - Replacement backlit DIA for the 2020 *** **Limited Availability** ***	
2653	MPS-24AE - Main power supply and charger; 3.0A regulated A/V power. 220-240 vac, supports meter for battery charging circuit (Suitable for 2020) *** **Limited Availability** ***	
2960	Verifier HK Upload/Download Cable	
2695	MIB-W - 1010/2020/INA Twisted pair wire media interface board *** **Limited Availability** ***	
3779	MIB-F - 1010/2020/INA Fibre optics media interface board *** **Limited Availability** ***	
6356	MIB-W/F - Mix twisted pair wire and fibre optics media interface board *** **Limited Availability** ***	
2665	LCD-80 for 1010/2020	

VESDA

3653	VSP-001 Programmer module
3523	VSP-002 VLP display module
2953	VSP-003 VESDAnet socket
3379	VSP-004 Scanner display module
3216	VSP-005 Universal filter assembly
5092	VSP-006 VLP chassis and manifold assembly
10872	VSP-007 Remote termination card – no relays
3358	VSP-008 Remote termination card with 7 relays
10026	VSP-009 Scanner chassis and manifold assembly
3144	VSP-014 Head termination card with 7 relays
5645	VSP-015 Detector aspirator assembly
11718	VSP-018 Filter switch assembly VLP & VLS
1784	FIL-FOAM Foam pads for FMK-4
FG-55-059	VSP-501 – Laser Compact replacement aspirator
FG-55-060	VSP-850-G In-line filter (Grey)
FG-55-062	VSP-855-4 VESDA In-Line Filter elements (pack 4)
FG-55-066	VSP-030 - VLI intelligent filter
FG-55-067	VSP-031 - VLI secondary filter
FG-55-068	VSP-032 - VLI Replacement Aspirator
FG-55-069	VSP-033 - VLI chamber assembly

OSID

FG-98-005	OSP-001 FTDI Cable 1.5m
FG-98-006	OSP-002 Laser Alignment Tool
FG-01-090	OSE-RBL - Battery Exchange Unit Lithium exchange unit
FG-01-091	OSE-RBA - Emitter Spare Battery Alkaline battery

SOLO TEST & REMOVAL EQUIPMENT

FG-01-032	SOLO720 Battery Baton to suit cordless tester
FG-01-033	SOLO725 Battery Fast charger
FG-01-034	SOLOSPARE1002 Plastic caps for SOLO200
FG-01-035	SOLOSPARE1005 Silicon membrane 330/461
FG-01-036	SOLOSPARE1028 Aerosol retaining cup

I-2000 EWIS

10701	ME0381 - MECP 2 Zone Mylar and Metalwork only
10702	ME0382 - 8 Zone Mylar and Metalwork only
2751	ME0205 - 8 zone Display Extender (Metalwork, keypad membrane and PCB)
11076	ME0207 - Control Panel ECP, 3 WIP (Metalwork, keypad membrane and PCB
5948	PA0698 - Evacuation Communication Module -ECM9603
2869	PA0657 - Signal Interface PCB (SE9004)
2764	PA0649 - Signals Interface Module (SPIF)
2757	PA0697 - 8 Strobe/16 relay module (for strobes)
2760	PA0651 - FIP/BGA Master x 10
2761	PA0652 - FIP/BGA Extension
2741	PA0650 - Amplifier 4 x 10W or 2 x 25W
2742	PA0690 - Amplifier 2 x 50W or 1 x 100W
12184	KT0519 - Amplifier 1 x 200W (2 cards)
2743	PA0795 - Transformer module 4 x 10W without relays
2744	PA0796 - Transformer module 4 x 10W c/w relays
2746	PA0794 - Transformer module 2 x 25W c/w relays
2748	PA0792 - Transformer module 4 x 25W c/w relays
2749	PA0691 - Transformer module 2 x 50W PCB
2750	PA0692 - Transformer module 1 x 100W
3888	PA0648 - Transformer module 1 x 200W
2767	PA0646 - Audio Isolation Unit - ALIM
2754	ME0200 - Card cage
10661	PA0642 - WIP slave module (common 0V version)
10662	PA0916 - WIP Termination PCB assembly (common 0V version)
5478	ME0330 - PS2406 6A Power Supply Brick
2753	ME0331 - Power Supply 6 amp rack mount
5679	ME0333 - PS2412 12A power Supply 2U Rack Mount
2755	PA0758 - Multiplexor 16 seconds speech (EMUX16)
2756	PA0759 - Multiplexor 60 seconds speech (EMUX60)
10807	IC0391 - 60 Sec Analogue recorder IC to suit EMUX
3524	ME0290 - Microphone CB-type to suit I-2000
2857	SU0168 - Gooseneck microphone and bracket to suit I-2000 paging console
2768	FP0732 - 30 Zone Paging Console

IECex Hazardous Area Classification:

Ex   d   IIC   T6(Ta -40°C to +65°C)

- Explosion Protection (Ex) Symbol
- Type of Protection
- Apparatus group
- Temperature Class
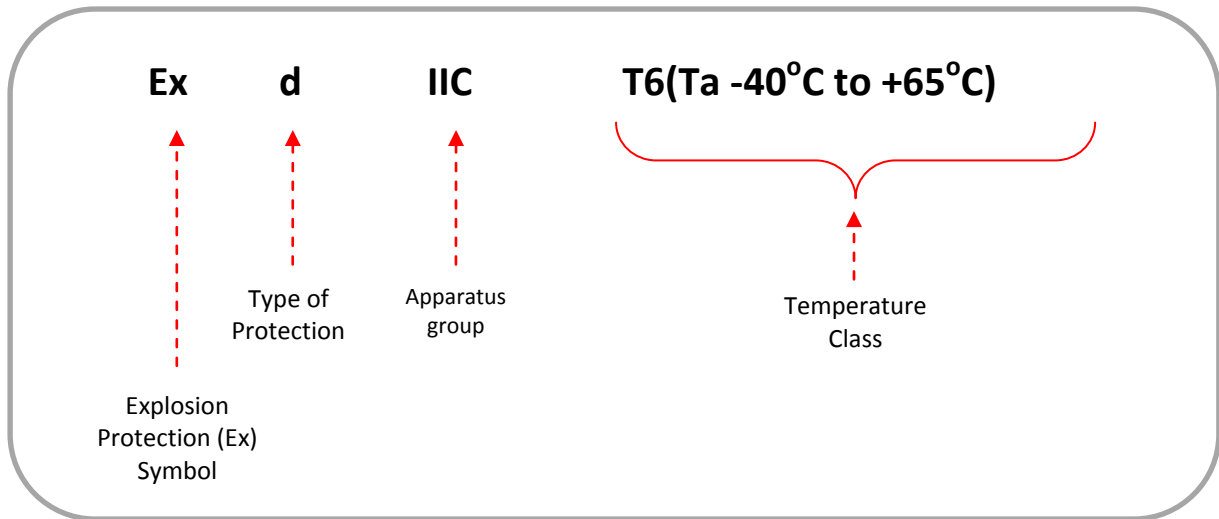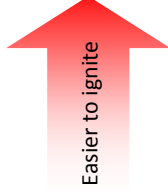
- *Zones*

	Continuous Hazard (> 1000hrs/annum)	Intermittent Hazard (>10 < 1000hrs/annum)	Possible Hazard (<10 hrs/annum)
Explosive Gases	Zone 0	Zone 1	Zone 2
Dust	Zone 20	Zone 21	Zone 22
	In which an explosive gas/dust and air mixture is present continuously or is present for long periods.	In which an explosive gas/dust and air mixture is likely to occur in the normal operation of the plant.	In which an explosive gas/dust and air mixture is not likely to occur in the normal operation.

- **Type of Protection**

Zone	Ex	Type of Protection
0	Ex ia	Intrinsically-Safe
	Ex s	Special (specially certified)
	Ex ma	Encapsulation
1	Any design suitable for Zone 0 plus	
	Ex d	Flameproof
	Ex ib/Ex I/EX ID	Intrinsically-Safe
	Ex p/ EX PD	Pressurized / continuous dilution
	Ex e	Increased safety
	Ex s	Special protection
	Ex m/ Ex MD/ Ex mb	encapsulated
2	Any design suitable for Zone 1 plus	
	Ex n or N	Non sparking (Non-incendive)
	Ex ib	Intrinsically-Safe
	Ex o	Oil immersion
	Ex q	Powder / sand filled

- *Apparatus Group*

Representative Gas	Type of Protection	Ignitability
Acetylene	Group IIC	
Hydrogen	Group IIC	
Ethylene	Group IIB	Easier to ignite ↑
Propane	Group IIA	
Methane	Group I	

- *Temperature Class*

Classification	Temperature (Degrees C)	Ignitability
T1	450	
T2	300	
T3	200	Easier to ignite ↓
T4	135	
T5	100	
T6	85	

Ingress Protection (IP):

First Numeral	IP		Second Numeral
No Protection	0	0	No Protection
Protection against solid bodies larger than 50mm (e.g accidental contact with the hand)	1	1	Protected against vertically-falling drops of water or condensation
Protection against solid bodies larger than 12.5mm (e.g finger on the hand)	2	2	Protection against drops of water falling at up to 15o from the vertical
Protection against solid bodies larger than 2.5mm (e.g tools, wires)	3	3	Protection against drops of water falling at up to 60o from the vertical
Protection against solid bodies larger than 1 mm (e.g small wires, fine tools)	4	4	Protection against drops of water from all directions
Protection against dust (no harmful deposits)	5	5	Protection against jets of water from all directions
Completely protected against dust	6	6	Completely protected against jets of water of similar force to heavy seas
		7	Protected against to effects of immersion (defined in minutes)

NEMA Enclosure Types to IEC classification:

NEMA Enclosure Type Number	Approximate IP Code
1	IP20
2	IP22
3	IP55
3R	IP24
4	IP66
4X	IP66
6	IP67
12	IP54
13	IP54

Cabinet Paint Codes:

Colour	Dulux Paint Codes
Charcoal Texture	#88531
APO Grey	#32786
Oyster Grey	#36856

Flame Detector Selection Guide:

	UV	Single IR	Dual IR (IR^2)	Triple IR (IR^3)	UV/IR^2
Optical Interference Sources					
Arc Welding	■	□	○	○	○
Modulated IR Radiation	○	■	□	□	○
Electrical Sparks	■	○	○	○	○
Lightning	■	□	○	○	○
Radiation (Nuclear)	■	○	○	○	○
Sunlight	□	■	□	○	○
Artificial Lighting	□	■	□	○	○
UV Lamps	■	○	○	○	○

○ No Effect   □ Some Effect   ■ Severe Effect

	UV	Single IR	Dual IR (IR^2)	Triple IR (IR^3)	UV/IR^2
Effects to Sensitivity					
Smoke	▲	△	△	△	▲
Steam	▲	△	△	△	▲
Water Spray	▲	△	△	△	▲
Oil Film	▲	△	△	△	▲
Dust	▲	△	△	△	▲

△ Minor Reduction   ▲ Major Reduction

Flame Detector Application Guide:

Single IR	Dual IR (IR^2)	Triple IR (IR^3)	UV/IR^2
Low immunity to false sources - Lowest Cost - Fastest Response Time (For Enclosed & Dark Areas)	High Immunity to false sources (Indoor Areas)	Excellent Immunity to false sources (Indoor or Outdoor Areas)	Highest Immunity to false sources (Indoor or Outdoor Areas)
Applications - Agriculture - Bed Fillings - Coal Milling - Dryers - Dust Collection/Filters - Felt Manufacture - Wallpaper Production - Woodworking	**Applications** - Churches - Coal Handling - Fume Cupboards - Printing - Spray Booths - Textiles - Waste Handling	**Applications** - Atria - Coal Handling - Nuclear Industry - Pharmaceuticals - Printing - Spray Booths - Storage Tanks - Tunnels - Waste Tips	**Applications** - Aircraft Hangars - Engine Rooms - Engine Test Facilities - Generators - High Voltage Equip. - Nuclear Industry - Power Plants - Storage Tanks

Gas Detector Application Guide:

Oil & Gas

The oil and gas industry covers a large number of upstream activities from exploration and production of oil and gas to its transportation, storage and refining. The large amount of highly flammable Hydrocarbon gases involved are a serious explosive risk and additionally toxic gases such as Hydrogen Sulphide are often present.

Typical Applications:
- Exploration Drilling Rigs
- Production Platforms
- Onshore oil and gas terminals
- Refineries

Typical Gases:
Flammable:
Hydrocarbon gases
Toxic:
Hydrogen Sulphide, Carbon Monoxide

Chemical Plants

Probably one of the largest users of gas detection equipment are Chemical Plants. They often use a wide range of both flammable and toxic gases in their manufacturing processes or create them as by-products of the processes.

Typical Applications:
- Raw material storage
- Process areas
- Laboratories
- Pump rows
- Compressor stations
- Loading Areas

Typical Gases:
Flammable:
General Hydrocarbons
Toxic:
Various including Hydrogen Sulphide, Hydrogen Fluoride and Ammonia

Power Stations

Traditionally coal and oil have been used as the main fuel for Power Stations. In Europe and the US most are being converted to natural gas.

Typical Applications:
- Around the boiler pipe work and burners
- In and around turbine packages
- In coal silos and conveyor belts in older coal/oil fired stations

Typical Gases:
Flammable:
Natural Gas, Hydrogen
Toxic:
Carbon Monoxide, SOx, NOx and Oxygen deficiency.

Waste Water Treatment Plants

Waste Water Treatment Plants are a familiar site around many cities and towns. Sewage naturally gives off both Methane and H2S. The 'rotten eggs' smell of H2S can often be noticed as the nose can detect it at less than 0.1ppm.

Typical Applications:
- Digesters
- Plant sumps
- H2S Scrubbers
- Pumps

Typical Gases:
Flammable:
Methane, Solvent vapours
Toxic:
Hydrogen Sulphide, Carbon Dioxide, Chlorine, Sulphur Dioxide, Ozone.

Boiler Rooms

Boiler Rooms come in all shapes and sizes. Small buildings may have a single boiler whereas larger buildings often have large boiler rooms housing several large boilers.

Typical Applications:
- Flammable gas leaks from the incoming gas main
- Leaks from the boiler and surrounding gas piping
- Carbon Monoxide given off badly maintained boiler.

Typical Gases:
Flammable:
Methane
Toxic:
Carbon Monoxide

Hospitals

Hospitals may use many different flammable and toxic substances, particularly in their laboratories. Additionally, many are very large and have onsite utility supplies and backup power stations.

Typical Applications:
- Laboratories
- Refrigeration plants
- Boiler rooms

Typical Gases:
Flammable:
Methane, Hydrogen
Toxic:
Carbon Monoxide, Chlorine, Ammonia, Ethylene oxide and Oxygen deficiency

Tunnels/Car Parks

Car Tunnels and enclosed Car Parks need to be monitored for the toxic gases from exhaust fumes. Modern tunnels and car parks use this monitoring to control the ventilation fans. Tunnels may also need to be monitored for the build up of natural gas.

Typical Applications:
- Car tunnels
- Underground and enclosed car parks
- Access tunnels
- Ventilation control

Typical Gases:
Flammable:
Methane (natural gas), LPG, LNG, Petrol Vapour.
Toxic:
Carbon Monoxide, Nitrogen Dioxide

TERMS & CONDITIONS OF SALE

HONEYWELL LIMITED (ACN 000 646 882) trading as 'Notifier Inertia'

. **Definitions**
For the purpose of these Conditions and unless the context otherwise requires:
"Australian Consumer Law" means the Australian Consumer Law set out in Schedule 2 of the *Competition and Consumer Act 2010* (Cth), as supplemented or amended.
"Conditions" means these Terms and Conditions of Sale.
"Contract" means the contract formed in accordance with clause 2.1, consisting of Notifier's proposal (if any), the relevant invoice and these Conditions and where applicable, Special Conditions of Subcontract relating to the Code and Guidelines.
"Equipment" means equipment manufactured by Notifier or its affiliates.
"Errors" means the failure of Goods to perform a function as described in the Notifier proposal, the Notifier functional specification for those Goods, the appropriate Notifier user manual or Notifier product literature as the case may be.
"Goods" means Equipment or Software.
"GST" means the tax imposed by the *A New Tax System (Goods & Services) Act 1999 (Cth)* and related imposition Acts of the Commonwealth.
"Index" means the average weekly earnings measure (as per ABS No. 6302, Series No, A594406R [or such other ABS reference as may be substituted for the measure]) or in the event that this Index is discontinued, the Australian Bureau of Statistics index that most reflects the Index's constituents.
"Loss or Damage" includes all types of property, pecuniary or other loss or damage, including consequential loss or damage and loss of profits.
"Non-Notifier Goods or Services" means equipment, documentation, product literature, labour, knowledge, service or computer programs in machine readable form, that is supplied, manufactured, installed or provided by a person other than Notifier.
"Person" includes a corporation.
"Services" means Notifier labour or service.
"Software" means computer programs developed by Notifier or its affiliates in the form of machine readable instructions and any documentation or product literature relating to those computer programs.
"System" may include Notifier equipment and software and Non-Notifier Goods or Services.

2. **Contract Formation**
   2.1 Subject to clause 2.3, a binding agreement will form between the parties:
   (a) if these Conditions form part of a proposal to Customer, on receipt by Notifier of Customer's unconditional acceptance of the proposal, evidenced by Customer's purchase order whether or not the proposal is referenced; or
   (b) otherwise, on Notifier's written acceptance of Customer's purchase order;
   and the Contract will constitute the entire contract between the parties in connection with the sale of Goods and Services.
   2.2 Any proposal incorporating these Conditions:

   (a) will not be valid after 30 days of its date, unless otherwise agreed by Notifier; and
   (b) may be varied or withdrawn by Notifier at any time prior to unconditional acceptance by Customer.
   2.3 No modifications or variation of the Contract (including any statement by Customer that Customer's terms will apply) shall bind Notifier unless expressly agreed to in writing by an authorised representative of Notifier. Notifier will not be deemed to have waived these Conditions if it fails to object to provisions submitted by Customer.
   2.4 These Conditions will prevail in relation to the supply of Goods and Services to the extent of any inconsistency between these Conditions and any other documentation agreed by Notifier under clause 2.3.

3. **Express Warranty**
   3.1 Subject to these Conditions, Notifier hereby expressly warrants that:
   (a) Goods manufactured by Notifier in its Baulkham Hills, New South Wales facility shall be free from Errors for thirty six (36) months from date of supply or installation (whichever is the earlier) of the Goods (the Goods Warranty Period). Any Non-Notifier Goods sold by Notifier, but not manufactured by Notifier, will be provided with the same warranty as provided by the original manufacturer; and
   (b) Services performed by Notifier shall be free from Errors for twelve (12) months from the date of performance of the Services (Services Warranty Period).
   3.2 Notifier will if any Errors occur in Goods, during the Goods Warranty Period, at its election, either:
   (a) in the case of Equipment,
   (i) replace the Equipment or supply equivalent equipment FOB at Notifier's facility; or

   (ii) repair the Equipment; or
   (iii) pay the cost of replacing the Equipment; and
   (b) in the case of Software,
   (i) repair, modify or make good the Software; or
   (ii) make available to Customer instructions to enable Customer to repair, modify or make good the Software; or
   3.3 Subject to these Conditions, and only in relation to any Services provided by Notifier to a Customer who is not a consumer as defined by the Australian Consumer Law, Notifier hereby expressly warrants that for three (3) months from date of provision, the Services shall be free from Errors. Notifier will if any Errors occur in Services, during the Services Warranty Period, at its election, either:
   (a) supply the Services again; or
   (b) pay the cost of having the Services supplied again.
   3.4 Clauses 3.1,3.2 and 3.3 will not apply to Errors attributable to:
   (a) Non-Notifier Goods or Services;
   (b) any modification or repair of Goods unless made by Notifier or with Notifier's prior written approval;
   (c) negligent use, abuse or misuse of Goods;
   (d) the use of Goods under environmental, power or operating conditions beyond the limits or constraints specified by Notifier;
   (e) the installation or wiring of any Goods other than in accordance with Notifier's instructions;
   (f) the use of any Goods with any Non-Notifier Goods or Services; or
   (g) wear or burn-out resulting from usage of goods of a kind inherently susceptible to burn-out.
   3.5 Notifier authorises Customer to pass on the express warranties contained in clauses 3.2(a) and (b) (as applicable) to end users who purchase Goods from Customer, provided that:
   (a) Customer is not authorised to, and must not purport to, pass on to such end-users any warranty rights greater than, or different to, those granted by Notifier in clause 3.2(a) or (b) (as relevant); and
   (b) if Customer wishes to pass on the warranty rights granted in clause 3.2(a) or (b) in writing, Customer must provide Notifier with a copy of the document which it proposes to use for this purpose for review and written approval by Notifier before such document is provided to the end-user.
   3.6 Our Goods come with guarantees that cannot be excluded under the Australian Consumer Law. Customer is entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable Loss or Damage. Customer is also entitled to have the Goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
   3.7 This clause 3 states Notifier's total responsibility and liability, and Customer's sole remedy in respect of the Goods and Services. In no event will Notifier be liable for any incidental, consequential, special, or indirect damages, even if informed of the possibility of such damages and notwithstanding the failure of the essential purpose of any limited remedy. No extension of this warranty will be binding upon Notifier unless set forth in writing and signed by Notifier's authorised representative.

4. **Limitation of Liability**
   4.1 To the full extent permitted by law and subject to clauses 3.1, 3.2 and 4.2:
   (a) Notifier makes no warranty and will not be liable for any breach of statutory obligation or implied condition or warranty in respect of Goods and Services or the materials used, Systems or results of any process with which the Goods and Services are used or integrated;
   (b) Notifier shall under no circumstances be liable in any way whatsoever to Customer for any Loss or Damage sustained or incurred by Customer or any other party arising directly or indirectly out of the supply of Goods or Services by Notifier, the use or performance of Goods or Services in isolation or as part of a System, any breach by Notifier of the Contract, or negligence of Notifier. Notifier's liability to the Customer, if any, in contract, tort or otherwise will be reduced to the extent the Customer contributed to the Loss or Damage;
   (c) Notifier does not make any representations or give any warranty as to the overall performance of any System or the results of any process with which the Goods or Services are used or integrated; and
   (d) the express warranties in clauses 3.1 and 3.2 is in substitution for all other terms, conditions, warranties and representations, implied by statute or otherwise, and all other terms, conditions, warranties and representations are excluded.
   4.2 Where the Australian Consumer Law imposes statutory consumer guarantees in respect of Services provided by Notifier to the Customer, and the Services are of a kind not ordinarily acquired for personal, domestic or household use or consumption, then the Customer's

remedies for breach of any such statutory consumer guarantee shall be limited to, at Notifier's election:
    (a)   re-supply of the Services; or
    (b)   payment of the cost of having the Services supplied again.
4.3   This clause 4 will survive termination or completion of the Contract.

5. Price and Terms of Payment

5.1   Unless stated otherwise in writing, all prices quoted by Notifier, are exclusive of all taxes, (including any GST), duties, levies and any other government charges, and where applicable shall be added to the price payable by the Customer to Notifier. When GST is payable by Notifier in respect of a taxable supply made by Notifier to the Customer, the Customer shall pay Notifier, in addition to the GST-exclusive price, the amount on account of GST shown in the tax invoice rendered by Notifier.

5.2   Unless stated otherwise in writing, all prices quoted by Notifier, are based on the factory or supplier price list as held by Notifier at date of proposal and also on rates of duty and primary wages and salaries, freight insurance and exchange rates prevailing at the date of the proposal. Any increase in price resulting from variation in any of these factors shall be payable by Customer. All prices are quoted based on Notifier's terms and conditions; to the extent Customer's terms and conditions are deemed to apply, Notifier reserves the right to modify all prices according to the additional level of risk and responsibility that Customer's terms and conditions require Notifier to undertake. Additionally, thirty (30) days prior to the expiry of the first term of this Contract or such other time as nominated by Notifier and every anniversary thereafter, Notifier may give to the Customer notice in writing that the price of the Goods or Services shall increase. In the absence of such notice, prices quoted by Notifier shall increase in accordance with the Index or by 5%, whichever is the greater.

5.3   Notifier reserves the right to raise and be paid for progress claim invoices on the Customer. Progress claim invoices may be raised upon the supply of Equipment Services or Software to Customer or to some other place agreed or upon the completion of agreed benchmarks or other measure as agreed between Customer and Notifier.
    (a)   where Notifier has Goods ready for supply in accordance with a delivery schedule agreed between Notifier and Customer, but Customer is not able to adhere to that delivery schedule, then Notifier may invoice Customer in accordance with that delivery schedule. In the absence of an agreed delivery schedule, the current Notifier delivery schedule, as provided to Customer, shall be deemed to be the delivery schedule.
    (b)   Goods paid for by Customer under sub-clause 5.3 will be held for Customer under Notifier's custody, care and control and will be insured by Notifier for fire and burglary at replacement value.

5.4   Except as otherwise agreed, invoices will be raised by Notifier upon the supply of Equipment, Services or Software.

5.5   Subject to approval of Customer's credit by Notifier, all charges shall be due and payable and paid by Customer to Notifier within thirty (30) days from date of invoice. Where Notifier has not approved Customer's credit, all charges shall be due and payable and paid by the Customer to Notifier upon delivery of Goods or Services.

5.6   All payments shall be in Australian legal currency.

5.7   Any moneys for which an account or invoice has been furnished to Customer, and which remain unpaid for ninety (90) days after the due date for payment shall, at Notifier's option, bear interest as from the date upon which payment is due at the prevailing commercial overdraft rate of Notifier's then current bank.

6. Risk and Title

6.1   Property and ownership in Equipment will not pass to the Customer but will remain in Notifier until the purchase price of the Equipment has been paid in full.

6.2   Until property in the Equipment passes to the Customer:
    (a)   the Customer shall hold the Equipment as fiduciary bailee and agent for Notifier;
    (b)   unless otherwise notified in writing, the Customer is authorised to sell or use the Equipment in the ordinary course of business;
    (c)   after giving 48 hours notice to the Customer, Notifier shall be entitled to enter the Customer's premises between 9am and 5pm to inspect the Equipment;
    (d)   the Equipment shall be stored separately and in a manner to enable them to be identified and cross-referenced to particular invoices;
    (e)   if the Customer sells or uses the Equipment in a manufacturing or value added process of its own or a third party, then the Customer shall hold such part of the proceeds of the sale, manufacturing or value added process as relates to the Equipment in trust for Notifier. Such part shall be deemed to equal in dollar terms the amount owing by the Customer to Notifier for these Equipment at the time.

6.3   If the Customer:
    (a)   fails to make payments for the Equipment on the due date; or
    (b)   commences to be wound up or is placed under official management or suffers a receiver or manager to be appointed or becomes insolvent or bankrupt or commits an act of bankruptcy,
the Customer will deliver the Equipment to Notifier upon demand. In the event the Customer does not comply with a demand within 48 hours of receipt, Notifier shall be entitled to enter upon the Customer's premises at any time to do all things necessary in order to take possession of the Equipment. The Customer will also pay on demand all costs associated with the exercise of Notifier's rights under this clause.

7. Retention of Title and PPSA

7.1 Title
(a)   All Goods supplied in accordance with the terms of this Contract or any other agreement between Notifier and the Customer remain Notifier's property until the Customer has paid in full all moneys that the Customer owes to Notifier from time to time.
(b)   If the Customer purchases Goods for re-supply, then the Customer may sell the Goods in the ordinary course of business but must hold all proceeds from any such sale in trust for Notifier.

7.2 Registration of security interest
(a)   For supplies made in Australia, terms in this clause 7.2 that are defined by the *Personal Property Securities Act 2009* (PPSA (Australia) have the same meaning in this clause.
(b)   For supplies made in New Zealand, terms in this clause 7.2 that are defined by the *Personal Property Securities Act 1999* (PPSA (NZ)) have the same meaning in this clause.
(c)   The Customer agrees and acknowledges that:
    (i)   for the purposes of the PPSA, Notifier has a security interest in the Goods and in all proceeds from disposal of the Goods; and
    (ii)   Notifier may register its security interest under this clause 7.2 including as a purchase money security interest.

7.3 Undertakings
(a)   The Customer agrees:
    (i)   to the maximum extent permitted by law, to waive any right to receive a verification statement under the PPSA in respect of the security interest under this clause 7;
    (ii)   to do all things Notifier considers necessary or desirable to ensure that Notifier's security interest in the Goods is enforceable, continuously perfected and afforded the highest priority position available to Notifier;
    (iii)   to indemnify, and on demand reimburse Notifier for all expenses incurred in registering a financing statement or financing change statement on the Personal Properties Securities Register or releasing any Goods the subject of the security interest; and
    (iv)   to give Notifier ten (10) Business Days' prior written notice of any proposed change in the Customer's name and/or any other change in the Customer's details (including but not limited to changes in the Customer's address, facsimile number, email address, or business practice) and immediately advise Notifier of any material change in the Customer's business practices of selling or using any of Notifier's products subject to the security interest which would result in a change in the end products produced or the nature of proceeds derived from such sales.

7.4 Confidentiality
The parties agree neither party will disclose any information of the kind mentioned in section 275(1) of the PPSA (Australia) or section 177 of the PPSA (NZ), unless the Customer or Notifier are otherwise required to disclose such information under the PPSA Australia or PPSA NZ (as applicable).

8. Delay

8.1   It is contemplated that any Goods or Services to be supplied by Notifier will be supplied during regular working hours on regular working days. If for any reason Customer requests Notifier to supply Goods or Services outside regular working hours, any overtime or additional expenses occasioned thereby shall be invoiced to and paid by Customer to Notifier as part of the purchase price for such Goods or Services, at Notifier's then current labour rates to customers.

8.2   Extra costs incurred by Notifier due to cessation of work occasioned by Customer's instructions or lack of instructions, by interruptions, mistakes, or work for which Notifier is not responsible shall be reimbursed by Customer to Notifier upon demand. Extra costs incurred by Notifier due to occurrences under clause 9 and sub-clause 9.2 in these terms and conditions shall be reimbursed by Customer to Notifier upon demand.

9. Work to be done by others

9.1   Without prior written agreement with Customer to the contrary, Notifier will not set in place or install equipment or services piping nor carry out any electric wiring work, welding or entry into process lines, or building work

such as concreting, cutting and making good, or painting. Such work shall be the responsibility of the Customer and at its expense and shall not be the responsibility of Notifier.

9.2   Notifier will not set the cut out or operating points of safety devices unless under the supervision and at the sole responsibility of Customer.

9.3   Notifier will not provide lifting machinery, scaffolding, toilets or other site amenities.

10.   **Delivery, etc.**

10.1   Delivery of Goods not agreed to be installed by Notifier shall be FOB a Notifier warehouse or Notifier affiliated or office selected by Notifier.

10.2   The delivery times made known to Customer are estimates only and Notifier does not accept any responsibility for delays whether caused by fire, strike, lockout, dispute with workmen, delays caused by suppliers or others, flood, accident, transportation delays, fuel shortage, inability to obtain material, war, demand or requirement of Government or statutory authorities or any other cause beyond its control. In event of any delay, the date or dates for performance of this contract by Notifier shall be extended for a period at least equal to the time lost by reason of the delay or the delays subsequently caused therefrom.

10.3   If the Goods or Services ordered by Customer are unable to be supplied to Customer by the scheduled delivery date, Notifier will notify Customer and with Customer's consent, Notifier may substitute equivalent goods or services in place of the Goods and Services ordered by Customer, in order to satisfy Customer's order.

11.   **Loss of or Damage to Goods**

11.1   To the extent permitted by law and subject to clause 4.1(b), in the case of Goods not agreed to be installed by Notifier, Notifier shall not be liable for any loss of or damage to the same after delivery FOB point of shipment, including any Loss or Damage in transit;

11.2   To the extent permitted by law and subject to clause 4.2, in the case of Goods agreed to be installed by Notifier, Notifier shall not be responsible for loss of or damage to goods, after those Goods have been delivered to the site. Should any Goods after being delivered and prior to payment by Customer be damaged or destroyed in any way whatsoever, other than by the fault of Notifier, Customer agrees promptly upon demand to pay or reimburse Notifier. In addition to and apart from any and all other sums due to or to become due to Notifier under these terms and conditions, an amount equal to the Loss or Damage so occasioned.

12.   **Claims**

Goods supplied shall be examined by Customer promptly upon delivery. To the full extent permitted by law and subject to clauses 3.1, 3.2 and 4.2, no claim will be recognised by Notifier unless such claim is reported to Notifier within seven (7) days after delivery of the Goods to which the claim relates.

13.   **Return of Goods**

13.1   Subject to clauses 13.2 and 13.3, Goods may be returned for credit if they do not correspond with the description under which they were sold.

13.2   No Goods may be returned for credit unless Notifier's written approval has been first obtained and the original invoice number and date have been quoted for reference.

13.3   Only Goods of current design in original sealed cartons, will be considered for credit, and a handling charge will be levied by Notifier and paid by Customer to cover necessary inspection, adjustment, repacking and clerical work.   Goods invoiced more than three (3) months prior to attempted return, Goods which are special in any nature whatsoever, software wirings and tubing cut to length and goods bought in to special order may not be returned.

14.   **Variations**

Subject to its statutory obligations in relation to the supply of services under the Australian Consumer Law, Notifier reserves the right to revise at any time the extent or type of goods or services it supplies to the Customer, if it believes that other goods or services supplied by Notifier can fulfil the same function.

15.   **Dispute Resolution**

15.1   The parties agree that if a dispute arises out of or relates to the Contract, a party may not commence any court or arbitration proceedings relating to the dispute unless it has complied with the provisions of this clause 15, except to seek urgent interlocutory relief.

15.2   A party claiming that a dispute has arisen must give written notice to the other party specifying the nature of the dispute. On receipt by the other party of the notice, the matter must be referred to the senior management of each party for resolution. If the managers are unable to resolve the dispute within ten business days, the parties must mediate the dispute under the mediation rules of the Law Society of New South Wales and the President of the Law Society or the President's nominee will select the mediator and determine the mediator's compensation.

16.   **Software Licence**

Notifier agrees to grant to Customer a licence to use any Software provided pursuant to the Contract, upon and subject to the terms and conditions set out in Notifier's standard Software Licence Agreement which Customer shall execute prior to delivery or installation of such Software.

17.   **Governing Law**

These Conditions are governed by the laws of New South Wales, Australia. Each party submits to the non-exclusive jurisdiction of the courts of NSW and the courts which hear appeals from those courts.

18.   **Indemnity**

Customer agrees to indemnify Notifier, its employees and agents and each of them from and against all Loss or Damage, resulting directly or indirectly from any acts, errors or omissions of Customer in connection with the Contract or the use, possession, operation of the Goods or Services. This clause will survive termination or completion of the Contract.

19.   **Intellectual Property**

Subject to clause 16, nothing in these Conditions shall confer on Customer any licence, right, title or interest in or to any intellectual property comprised in the Goods or Services, which will at all times remain the property of Notifier or its suppliers.

.

INDEX