FL-816

Conventional Fire Alarm Control Panel

INTUITIVE | RELIABLE | FLEXIBLE | SMARTER

Designed in Australia to meet local conditions and requirements, the FL-816 demonstrates that systems approved to AS7240.2 don't mean compromise.

With usability as a key focus for development and utilizing industry leading manufacturing and testing practices; the FL-816 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 FL-816 is extremely flexible and can be programmed to meet the demands of a wide variety of building types.

The FL-816 panel is compatible with the System Sensor detectors and peripheral devices supplied by Honeywell.

Features and Benefits

- 8 Zones – expandable to 16 Zone
- 80 character LCD display providing a simple user friendly interface
- 24 character programmable zone descriptor
- Zones can be configured for a range of different device type functions
- Outputs may be programmed for different functional and cause & effect requirements

- Compact 5.6 or 11.7 Amp system power supply and charger
- Optional programmable OWS with control, display and microphone module
- Optional 8 way programmable relay modules
- Two cabinet sizes 650 mm and 900 mm
- Remote LED mimic available

Fire·Lite Alarms
by Honeywell

Initiating Device Circuits (Zones)

- 8 or 16 zone interface circuits
- Up to 40 devices per zone
- Compatible with SYSTEM SENSOR 100 series devices (refer to FL-816 manual for complete list of compatible devices)

Notification Applicance Circuits (NACs)

- Three independently programmable output circuits
- All circuits are power-limited and supervised by 4.7K Ohm End of Line (EOL) resistor.
- Up to 1A power per NAC

Auxiliary Outputs

- Three independently programmable output circuits
- All circuits are power-limited and supervised by 4.7K Ohm End of Line (EOL) resistor.
- Up to 1A power per NAC

Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult system consultant for latest listing status.

- AS7240.2:2004 & AS7240.4:2004
- AS4428.3:2010
- Activfire certificate # afp-3784

FL-816

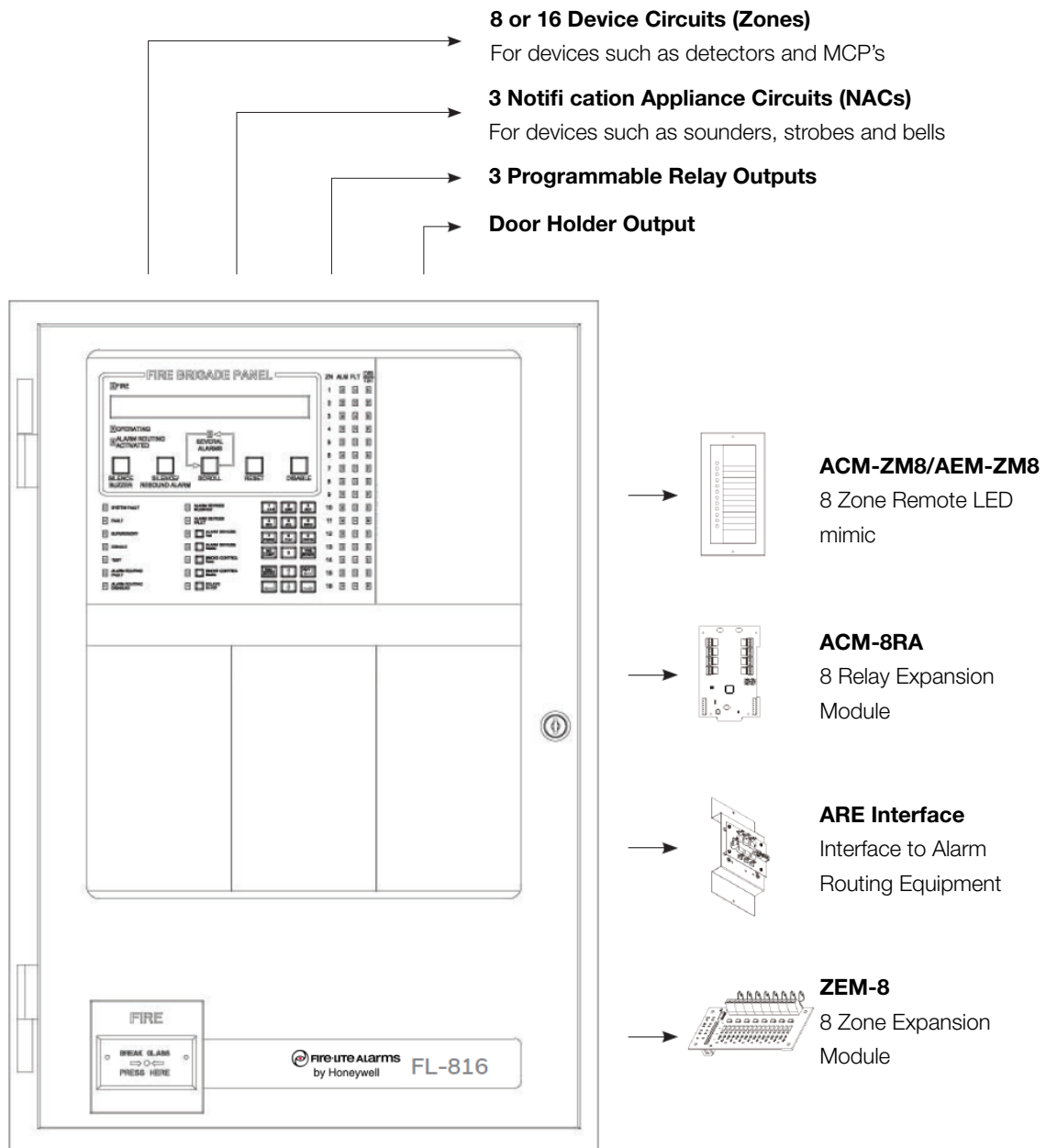Conventional Fire Alarm Control Panel

Techinical Specifications

ITEM	DESCRIPTION
Standard Systems	
FL-816/650PS5	Fire Alarm Control Panel with eight zones, 5.6A power supply installed in a CAB650 enclosure
FL-816/650PS11	Fire Alarm Control Panel with eight zones, 11.7A power supply installed in a CAB650 enclosure
FL-816/900PS11	Fire Alarm Control Panel with eight zones, 11.7A power supply installed in a CAB900 enclosure
Main System Components	
FL-816/CPU	FL-816 central processing unit including field interfaces
FL-816/KEY	Keypad and display; includes 80-character backlit LCD display
NPS-5CHS/NPS-11CHS	24VDC power supply and charger
ZEM-8	Eight zone expansion module; to expand from eight to sixteen zones
ACM-8RA	Relay module which provides eight individually configurable (C/NO/NC) relay contacts
ARE-T	Alarm Routing Equipment interface and mounting bracket to suit Tyco Centaur
ARE-R	Alarm Routing Equipment interface and mounting bracket to suit Romteck and Tyco Centaur II
ARE-CR	larm Routing Equipment interface and mounting bracket to suit Chubb Code Red
Audio Options	
DA2-30/DA2-60-DA2-120	Digital Amplifier. DA2-30 is 30 watts, DA2-60 is 60 watts, DA2-120 is 120 watts, 100 Vrms. Includes audio input and amplified output supervision.
DA-DISPF	Display control and paging microphone modules for DA series amplifiers
SAM-4	4 way Speaker Line Monitoring and distribution module for use with DA2 series amplifiers
Compatible Devices, ACS Modules	
ACM-ZM8	Remote LED mimic annunciator which provides indication for up to eight zones. • Requires annunciator mounting enclosure.
AEM-ZM8	Remote LED mimic expansion annunciator which provides indication for up to an additional eight zones. • Requires annunciator mounting enclosure and ACM-ZM8
Compatible Devices, Initiating Devices	
2151BAUS	System Sensor, Photoelectric smoke detector
5151AUS	System Sensor, Fixed Temperature, 63°C detector, type A2
5151RAUS	System Sensor, Rate of Rise, 63°C detector, type A2R
5151HAUS	System Sensor, Fixed Temperature, 90°C detector, type C
5151RHAUS	System Sensor, Rate of Rise, 90°C detector, type CR
885WP-B	System Sensor, Type B Sealed Heat detector
B401AUS	System Sensor, Conventional detector base
MCP1A	KAC Manual Call Point with 470R series resistor
NOTE: Devices with voltage free contacts such as Flow Switches, Pressure switches and some Type E probes will be suitable. For other options including compatibility with retrofit equipment, the FL-816 manual DOC-01-025	

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Product Line Information

ITEM	DESCRIPTION
Enclosures, Chassis and Dress Plates	
CAB Series Enclosures	FL-816 mounts in a standard CAB Series enclosure (available in two sizes, CAB650 and CAB900). The CAB series enclosures are available with a solid and window outer door. A trim ring option is available for semi-flush mounting
Other Options	
IFS-2008	Agent releasing module for extinguishing agent releasing CIE in accordance with AS4214.1:2002, AS & ISO14520.1:2009.
IFS-993	Strobe/sounder interface.
System Capacity	
Initiating device circuits (zones)	8 or 16
Expansion modules (total)	32
Total expansion ACM modules	ACM-8RA and ACM-ZM
Electrical Specifications	
Primary Input Power	NPS-5 fitted: 240vac, 0.8A, 50Hz. NPS-11 fitted: 240vac, 1.5A, 50Hz. Input Fuse: M205 8.0A, 250V
Battery	Two 12V Sealed Lead Acid batteries
Battery charger capacity	7AH-85AH (CAB650 and CAB900 enclosures hold maximum of two 33AH batteries)
Initiating Device Circuits	Power-limited, supervised circuit. End-of-Line Resistor: 4.7K ohm, ½ watt
Notification Appliance Circuits	Power-limited, supervised circuit. Maximum current per circuit: 1.0A. End-of-Line Resistor: 4.7K ohm, ½ watt
Programmable Relays	Contact Rating: 1.0A @ 30V DC (resistive)
Door Holder Output	Powered output protected by automotive fuse. Rating: 3.0A @ 30V DC (resistive)
Auxiliary Power (internal only)	24VDC power limited output for auxiliary devices installed within enclosure
Enclosures Specifications	
CAB650	650mm(h) x 450mm(w) x 190mm(d)
CAB900	900mm(h) x 450mm(w) x 190mm(d)
Temperature and Humidity	
This system has been certified for operation at 0o to 55o C and at a relative humidity 10% to 93%	

8 or 16 Device Circuits (Zones)
For devices such as detectors and MCP's

3 Notification Appliance Circuits (NACs)
For devices such as sounders, strobes and bells

3 Programmable Relay Outputs

Door Holder Output

ACM-ZM8/AEM-ZM8
8 Zone Remote LED mimic

ACM-8RA
8 Relay Expansion Module

ARE Interface
Interface to Alarm Routing Equipment

ZEM-8
8 Zone Expansion Module

FL-816 Connection Overview

ISO 9001
CERTIFIED
ENGINEERING & MANUFACTURING

FIRE·LITE ALARMS
by Honeywell