FiRE·LiTE ALARMS
by Honeywell

FL-816

Conventional Fire Alarm Control Panel

INTUITIVE | RELIABLE | FLEXIBLE | SMARTER

General

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.

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 relay outputs, preconfigured for Alarm, Fault (normally energized) and Disable.
- Auxiliary power output (internal only).
- One Door Holder output circuit, fused at 3A.

NOTE: Total power requirement of FACP consumption, charger requirements and power outputs of NAC and auxiliary power must not exceed the capability of installed power supply.
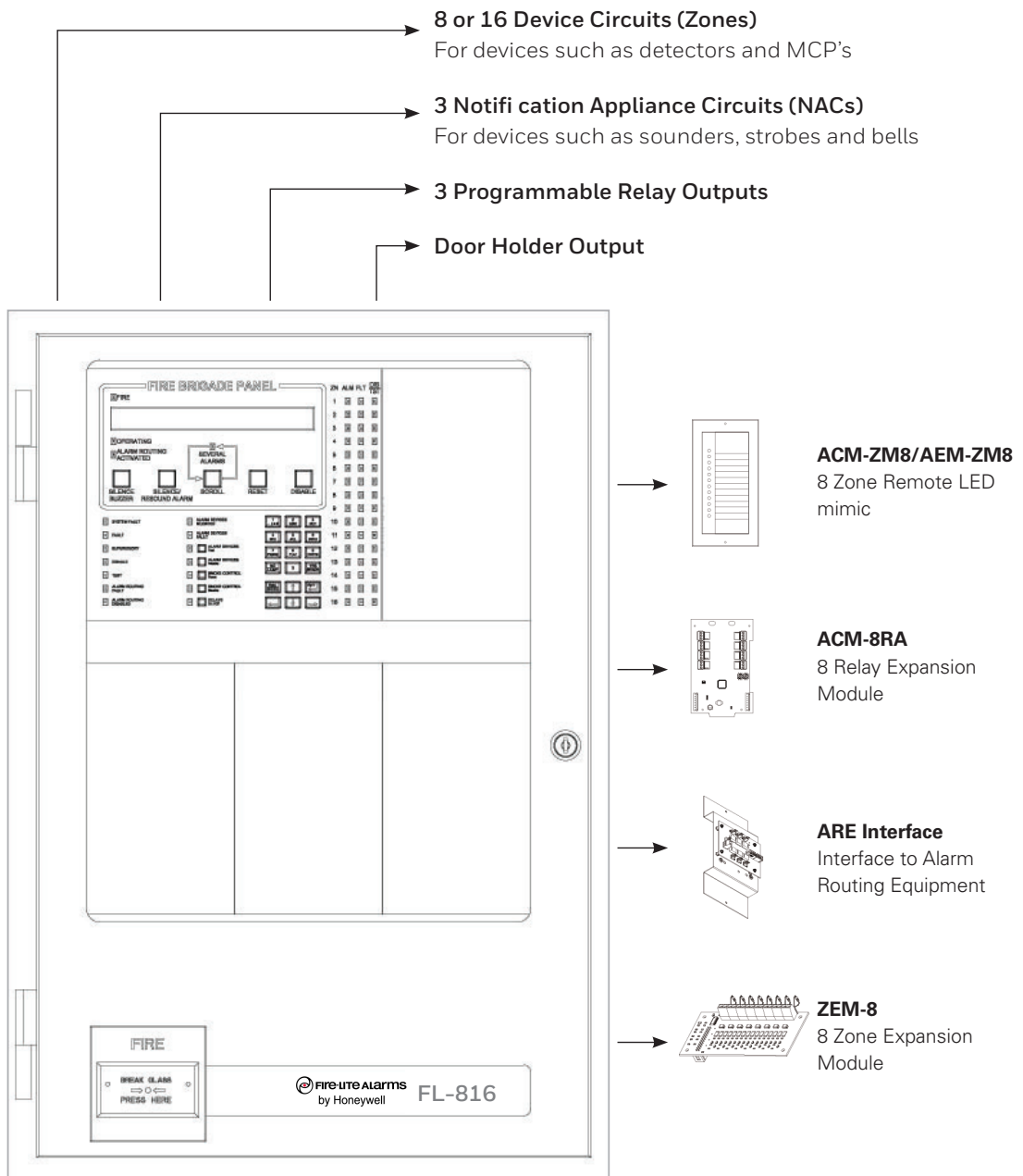

FL-816

FEATURES AND BENEFITS

- 8 Zones – expandable to 16 Zones
- 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

FL-816 Product Line Information

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

FL-816 Technical Specifications

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

NOTE: Standard options with DA Series Occupant Warning Systems fitted are available. Contact your systems consultant for more information

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: Alarm Routing Equipment interface and mounting bracket to suit Chubb Code Red

Audio Options

- DA-30/DA-60/DA-120: Digital Amplifier. DA-30 is 30 watts, DA-60 is 60 watts, DA-120 is 120 watts, 100 Vrms. Includes audio input and amplified output supervision.
- DA-DISP/A, DA-DISP/B, DA-DISP/C, DA-DISP/D, DA-DISP/E: Display control and paging microphone modules for DA series amplifiers
- SDM-4: Speaker distribution module, 4-way for use with DA 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

NOTES: 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

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
- CAB650BB-W: Optional battery box enclosure for additional capacity; holds up to two 33AH batteries
- CAB650SUR-W: Optional trim ring to suit CAB650 enclosure for semi-flush mounting
- CAB900SUR-W: Optional trim ring to suit CAB900 enclosure 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 is 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)
- CAB650BB-W: 300mm(h) x 450mm(w) x 190mm(d)
- All cabinets are powder-coated Surf Mist White. (PR12/4761/CW3 or Dulux PDR10 264 Surfmist Ripple)

Temperature and Humidity

- This system has been certified for operation at 0° to 55°C and at a relative humidity 10% to 93%

Agency Listings and Approvals

- AS7240.2:2004 & AS7240.4:2004
- AS4428.3:2010
- Activfire certificate # afp-2888

BSI

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For more information

www.honeywell.com

Honeywell Security and Fire
9 Columbia Way
Baulkham Hills
NSW 2153, Australia
Ph: 1300 234 234 (Australia)
Ph: +64 9 623 5050 (New Zealand)
www.honeywell.com

For general enquirers,
please email
sales@firex.com.au

FIREX
P: 1300 246 247
F: 02 9659 2033
E: sales@firex.com.au
W: www.firex.com.au

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