



FA1600C

Integrated Fire and Burglary Control



The FA1600C is a powerful integrated fire and burglary control that incorporates advanced technology while simplifying end user operations in even the most demanding applications. It offers eight partitions in a UL listed Commercial Fire and Burglary control panel. It supports up to 128 zones using basic hardwired, polling loop and wireless technologies. It also accommodates indicating circuits, phone lines, keypads, RF receivers and relays. In addition, the control offers scheduling capabilities and allows defined operations to be automated. It is available in either 12 or 24 volt models.

- Supports 128 zones, 8 partitions
- 12 and 24 volt versions
- 150 User codes available
- Wireless, hardwired or multiplex
- Patented V-plex global polling
- Keypad macros for ease of use
- UL listed for commercial fire and burglary
- 300 baud downloading
- Common lobby logic
- Cross-zoning
- Scheduling and relay control
- False alarm prevention features
- Automated functional smoke detector testing
- QED programming for fast enrollment of wireless device

Patented V-plex Global Polling Technology

Up to 120 additional zones using the on-board multiplex circuit. Must use RPM (Remote Point Module) devices, individually assignable to one of eight partitions.

- Speed - Wire multiplex circuit to process eight times faster than conventional multiplex systems
- Distance - 8,000 feet capability on twisted pair

Fire Detection Features

- Wireless smoke detectors (5808) in full compliance with commercial fire listing UL 864 and meets the NFPA 72 requirements. (*Wireless receiver 5881EH must be used for this feature*)
- Automatic smoke detector testing - functional testing, from the keypad, of all multiplex smoke detectors in an automatic sequence, stored in the log, printed on site or downloaded to a central station
- Calibrated Smoke Detector Testing - High sensitivity levels in both (M series) multiplex and 5808 wireless smoke detectors, the control will confirm high threshold levels due to dirt and other contaminants
- Local and Central Station Notification
- Supports 24V, 3.2A Power for 24V ADA Compliant Fire Notification Appliances

User Codes

- Accommodates 150 user codes, all of which can operate any or all partitions

System Features

- Wireless Expansion - It supports up to 128 wireless zones using 5881 or 5881EH Fire type RF receiver
- Supervised check-in signals (except certain non-supervised transmitters)
- Tamper protection for supervised transmitters
- Individually assignable to one of eight partitions
- Individually assignable to bell outputs and/or auxiliary relay
- QED programming for fast enrollment of devices
- Keypad Macros - accommodates up to 4 macro commands keypad macro command per partition which allows simplified keypad commands to control complex events
- Master Keypad - status of all eight partitions viewed at a glance. This reduces confusion and provides information immediately.



- Common Lobby Logic - Allows “First-in/Last-out” arming of all partitions
- Scheduling and Relay control - simplifies end user operation by automating system functions

False Alarm Prevention Features

Frequently caused during the exit process, This control includes several features to help end false alarms due to user error.

- **Exit Error Logic** - Alerts the user and allows for correction in the event an exit door is left open while keeping the remaining protection points armed; a unique report is sent to the central station
- **Exit Delay Reset** - Allows for user re-entry without causing an alarm

False alarms are also triggered by application conditions which, when anticipated, can be accommodated.

- **Cross Zoning** - allows for combinations of zones to fault before alarm sounds to avoid sensitive trigger reactions, or to create a “man-trap”
- **Fire Alarm Verification** - Will double-check an alarm condition before sounding
- **Calibrated smoke detector testing** - Provides NFPA 72 compliance for testing on an automatic basis

8 Partitions

Provides the ability to control 8 separate areas independently, each functioning as if it had its own separate control.

- A “Common Lobby” partition, which can be programmed to arm automatically when the last partition that shares the common lobby is armed and disarm when the first partition that shares the common lobby is disarmed

Peripheral Devices

- Supports up to 16 addressable devices, which can be any combination of keypads (FA550KP), RF receivers (4281/5881/5881EH), and relay modules (4204/4204CF). Peripheral Devices have the following characteristics:
 - Terminated at the Keypad Port 1 terminals on the control panel (except for the one alpha keypad, which must be connected to keypad Port 2)
 - Each device is set to an individual address (physically) according to the device’s instructions
 - Each device enabled in the system using the Device Programming Mode

Keypad Feature

- Accommodates three keypad panic keys
- Accommodates 32 keypad macro commands, simplifies usage of partitioned system

Notification Appliance Circuit

Provides two class B supervised notification outputs on the control panel itself. A 4204CF Relay Module can supply two additional supervised bell outputs

Auxiliary Relay

Provides a built-in “Form C” relay which can be used for one of the following:

- Alarm activation
- Trouble/Supervisory activation
- 4-wire smoke detector reset
- Battery saving feature

Optional Output Relays

Accommodates 16 relay outputs:

- Respond to system events
- Activate using time intervals
- Used for additional supervised bell outputs (4204CF only)
- Manual Activation
- Can be supervised by control panels
- Can each have an alpha descriptor assigned

Optional Voice Module

Supports the FA4285 telephone module. This permits access to the security system for the following:

- Obtain system status information
- Arm and disarm security system
- Control relays

Access Control

- If programmed, provides users with a command which activates a relay for two seconds to open access doors (e.g. lobby door). Each partition can be assigned an access control relay
- VGM Vista Gateway Module - allows full integration with PassPoint access control system

Event Log

Keeps a log of different event types (enabled in programming):

- Stores a total of 224 events
- Can be viewed at the keypad, local printer or through the use of the downloader

Scheduling

Provides the following scheduling capabilities:

- Open/Close schedules (for control of arming/disarming and reporting)
- Holiday schedules (allows different time windows for Open/Close schedules)
- Timed Events (for activation of relays, auto-bypassing and unbypassing, auto-arming and disarming, etc.)
- Access schedules (for limiting system access to users by time)
- End User Output Programming mode (provides 20 timers for relay control)

Agency Listings

Burglary: UL 609 Grade A Local Mercantile Premises and Mercantile Safe and Vault. UL 1610 Grades A, AA Central Station. UL 365 Grades A, AA Police Connect
Fire: UL 864-NFPA 72 Local Central Station and Remote Station

Communication Formats

Ademco high speed, Ademco 4+2 express, Ademco low speed, Ademco contact ID, Sescoa, Radionics low speed

Line Seize: Double Pole

Ringer Equivalence: 0.7B

FCC Registration No.: AC398U-68192-AL-E

FA550KP Remote Keypad Dimensions

6.25"W X 4.75" H X 1.25" D

Electrical

Voltage Input: 12VDC

Current Drain: 140mA

Interface Wiring for Keypads

Red: 12VDC input (+) auxiliary power

Blue: Not used

Green: Data to control panel

Yellow: Data from control panel

Black: Ground and (-) connection from supplemental power supply

Accessory Equipment

Modules

5140DLM: Dialer module

4146: Keyswitch

5140LED: Communicator status

5140SM: Serial Module

Manual Pull Stations

FA5140MPS-1: Manual fire alarm station, ADA Compliant, key reset, terminal block, gold contacts

5140MPS-BB: Surface back box for 5140MPS-1

Keypads

FA550KP

Keypad: English Text

FA550DRD: Red overlay

Addressable Smoke Detectors

4129CP/M: Ionization

4192SD/M: Photoelectronic

4192SDT/M: Photoelectronic with heat detector

Addressable PIR/Motion

4275EX: Multiplex addressable PIR

4278EX-SN: Multiplex addressable Quad PIR

998MX: Multiplex addressable PIR

Addressable Glassbreak/Shock

9500: Multiplex audio and shock detector

Contacts

4194WH: Surface reed contact

Expansion Devices

4190WH: Point expansion module one point

4209U: 2 wire smoke detector expansion

4208U: Eight point expansion dip switch on serial number device

4204: Four relay module

4204CF: Supervised relay module

Wireless Devices

5881L: Up to 8 points for wireless transmitters

5881M: Up to 16 points

5881H: Up to 128 points

5881EH: Up to 128 points compliant with UL864 and NFPA72

5808: Wireless smoke (must use 5881 EH receiver)

Compatible Two-Wire Smoke Detectors

2100: Low Profile photoelectronic

2100T: Low profile photoelectronic with heat

1100: Low Profile ionization

1151: Low Profile ionization (uses B110LP base)

2151: Low Profile photoelectronic (uses B110LP base)

B110LP: Base for 1151 and 2151

2400: Photoelectronic direct wire

2400TH: Photoelectronic with heat, direct wire

1400: Ionization, direct wire

2451DH: Photoelectronic duct detector with DH400 base

Beam Detector

1401: FIRERAY Optical beam detector 24VDC

Specifications

Control Dimensions

18" H x 14.5" W x 4.3" D

Electrical Specifications

Primary Power:

- For 12V systems - 1451 transformer with enclosure; rated 18VAC, 72VA
- For 24V systems - 1451-24 transformer with enclosure; rated 30VAC, 188VA

Backup Battery:

- For 12V systems - 12AH min. to 34.4AH max. lead acid battery (gel type)
- For 24V systems - 2-12V, 7AH min. to 17.2 AH max. lead acid battery (gel type)

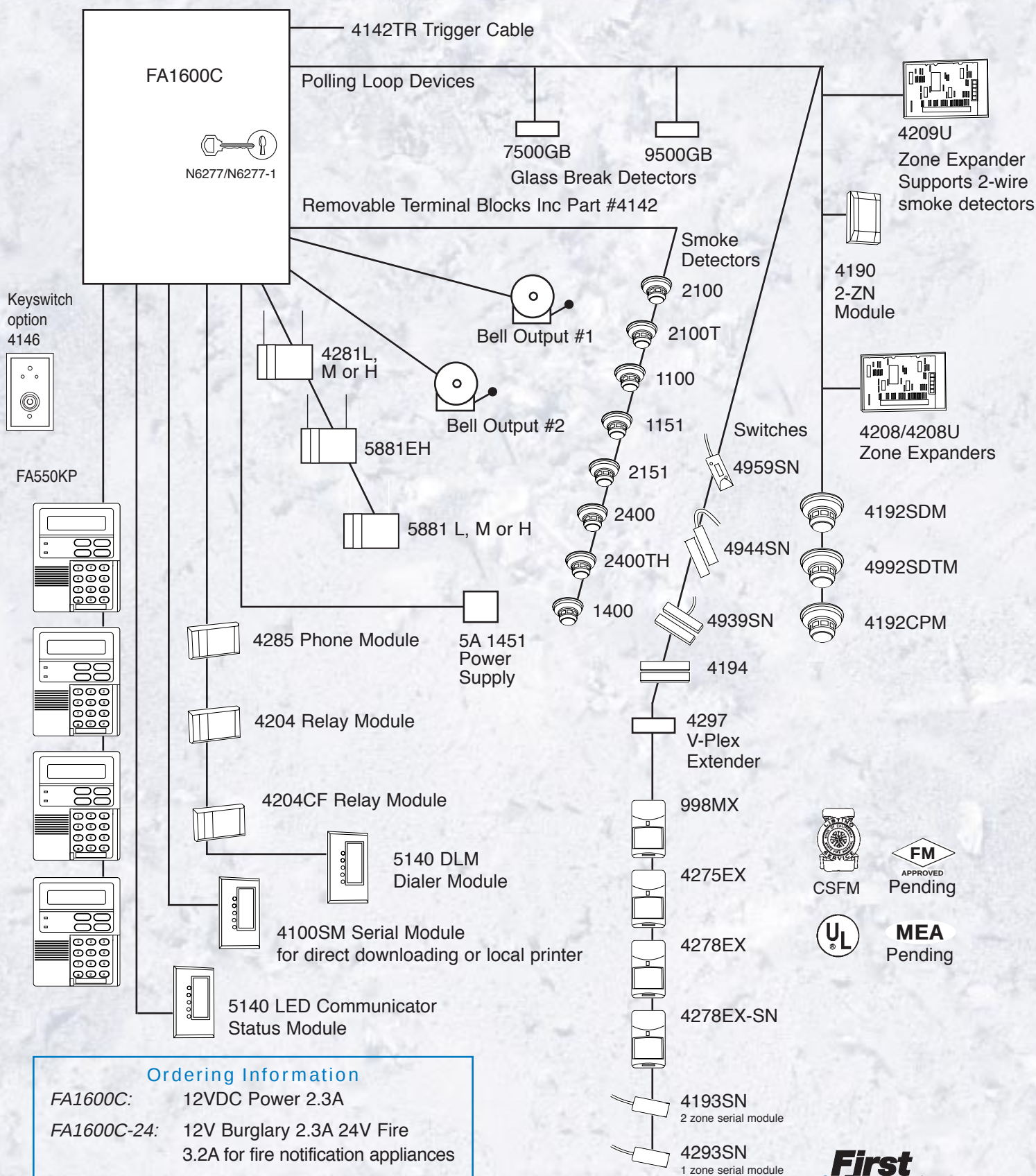
Alarm Power: 12VDC, 1.7 amps max

Aux. Standby Power: 12VDC, 1 amp max

Total Power: Combined auxiliary standby and alarm currents must not exceed 2.3 amps

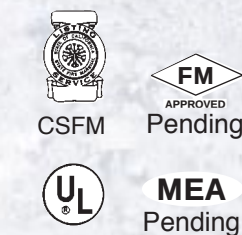
Standby Time: 24 hours, or 60 hours depending on battery size and load

Fusing: Battery input, auxiliary and bell power outputs are protected using PTC circuit protectors. All outputs are power limited



Ordering Information

FA1600C:	12VDC Power 2.3A
FA1600C-24:	12V Burglary 2.3A 24V Fire 3.2A for fire notification appliances
FA1600CA:	12V Burglary 50 VA plug in transformer, attack proof can.
FA1600CB:	12V Burglary 50 VA, universal can.



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