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 contaminates
- Local and Central Station Notification
- Supports 24V, 3.2A Power for 24V ADA Compliant Fire Notification Appliances

**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 photoelectric
- 2100T: Low profile photoelectric with heat
- 1100: Low Profile ionization
- 1151: Low Profile ionization (uses B110LP base)
- 2151: Low Profile photoelectric (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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