



FA2000C

Alarm Communicator For Fire Detection and Waterflow Supervision (DACT)



Primary Features

- UL 864 Listed Commercial Fire
- NFPA 72 Central Station and Remote Station Compliance
- Sprinkler supervision or slave applications
- 5 supervised Style B initiating circuits
- 1 notification appliance circuit
- Fully downloadable
- Dual phone line - standard
- 24 hour test
- Major communication formats

System Description

The First Alert Professional FA2000C is a 5 zone fire control communicator. It is designed specifically to offer digital fire reporting over the dial-up telephone network.

The model FA2000C is listed for use in applications required to meet UL 864 and NFPA 72 requirements. These requirements include the monitoring of local evacuation controls. The FA2000C will monitor dry contact alarm and trouble outputs and transmit a separate code for each.

The FA2000C can be used as a stand-alone to monitor sprinkler systems for waterflow, supervisory and gate valve tamper conditions. The FA2000C can also be utilized as a safety detection and evacuation system with the use of smoke detectors to activate bells and horns for notification. The unit is fully supervised and supports one two-wire smoke detection circuit. Its microprocessor constantly runs programs to monitor AC, standby battery, zone inputs and the telephone line connections. If a fault condition is detected, it sounds a local trouble audible and reports the condition to the central station. If one of the telephone lines faults, it will automatically switch to the other to report the failure.

The FA2000C conducts an automatic self-test every 24 hours - at a time you select - and sends a report to the central station.

Expanded Features

Zones Supported

- Up to 5 Style B hardwired zones
- Each zone programmable for:
 - fire alarm without verification
 - fire alarm with verification
 - 24-hour non-fire
 - audible or silent alarm
 - fire waterflow alarm
 - fire sprinkler supervisory

Built-in Indicators & Switches

- Warning buzzer
- Seven indicators for:
 - AC trouble
 - battery trouble
 - telco line fault
 - communications failure
- Silence/reset push-button switch which allows audibles to be silenced and smoke detectors to be reset
 - silenced audible conditions
- Telco line seizure (Double Pole)

Relay Outputs

- Style Y EOL supervised indicating circuit
- Auxiliary relay Form C output

Remote Keypads (optional)

- FA250KP: Fixed word keypad
- FA250DRD: Red inlay for FA250KP
- FA550KP: Alpha keypad
- FA550DRD: Red inlay for FA550KP

Communication

Main and back-up telephone interfaces which allow alarm, supervisory and trouble conditions to be reported to central station.



Programming

Locally via FA550KP alpha keypad, or remotely via First Alert Professional Compass Downloader

Regulatory Agency Listing

UL 864/NFPA 72 commercial fire, central station and remote station.

Dimensions

14-1/2" H x 12-1/2" W x 3" D

Electrical Specifications

AC Power

Built-in AC power transformer which requires nominal 120VAC, 600mA input.

Battery

12VDC, 7AH min-14AH max lead acid. Battery float

charging voltage: 13.7VDC nominal. 24 hours standby time with up to 350mA combined auxiliary power/auxiliary relay load.

Using 14AH battery 60 hour standby time with up to 55mA combined auxiliary power/auxiliary relay load using 14AH battery.

Output Power

Combined auxiliary power and auxiliary relay standby currents cannot exceed 350mA. Combined auxiliary power, auxiliary relay and bell alarm currents cannot exceed 1A.

Communications Format

Ademco, Sescoa, Radionics 3+1/4+1/4+2 low speed, Ademco Express, Ademco Contact ID.

Architectural & Engineering Specifications 5 Zone Fire Communicator DACT

The contractor shall furnish and install First Alert Professional Model FA2000C microprocessor based fire alarm communicator (sometimes referred to as a fire alarm DACT). It can monitor fire alarm, 24 hour (non-fire) alarm and fire sprinkler supervisory sensors. When the FA2000C detects an alarm, supervisory or trouble condition, it triggers an on-premises warning indication and transmits a message to a central station via the dial-up telco network. The DACT shall also be suitable for slave applications when used with local fire alarm control panels.

The communicator shall be UL 864 listed and conform to NFPA 72 standards for central station and remote station services. The digital communicator shall provide five supervised style B initiating circuits. Each zone is programmable for fire with or without verification, waterflow, 24-hour non-fire, audible or silent alarm and fire sprinkler supervisory response. One zone shall be capable of supporting 16 two-wire smoke detectors.

The communicator shall have the capability to supervise two telephone lines, seize the phone line and send the alarm signal on one or both lines. The FA2000C shall sound a local trouble signal if the telephone service is interrupted and shall transmit a signal indicating the loss of telephone service to the central station over the remaining phone line. A signal shall also be transmitted, indicating the restoration of phone service. If both phone lines fail, a local signal shall sound. The communicator shall have the ability to send a test signal to the central station every 24 hours. Provide built-in indicators and switches such as internal warning buzzer and seven indicators. (AC trouble, battery trouble, communications failure, telco line seizure, telco line fault, silenced audible conditions and a silence/reset push button). The communicator shall include, as standard equipment, one style Y supervised indicating circuit and an auxiliary form C relay.

The unit shall be capable of on-site programming through a FA550KP keypad or remotely through download software.

Wiring Diagram

