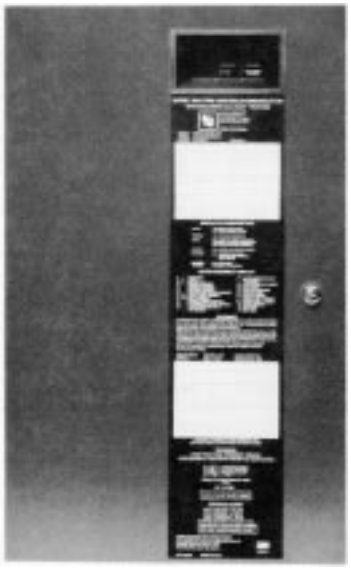
Model 5207 Fire Control Panel with Digital Communicator and Accu-Zone®

Your All-In-One Answer For Fire Protection.

The Model 5207 is an all-in-one fuseless local evacuation control panel and digital communicator designed for applications requiring manual fire alarm, automatic fire alarm and water flow for sprinkler supervision. The basic unit offers fire alarm for one to eight zones, expandable to 16 with the optional 5210 expansion module. It is compatible with both two- and four-wire smoke detectors. Compact, easy to install and service, it delivers the features you'd expect to find in fire systems costing much more.

Features

- Eight zones, 6 Class B (Style A) and 2 Class A (Style D). 8 expander zones and Class B (Style A). Zones are interchangeable using the Model 7181 Zone Converter.
- UL, FM, MEA (BSA), CSFM listed and Approved.
- Event Memory.
- Fuseless design reduces service time.
- 24 VDC power supply.
- Compatible with 2- and 4-wire smoke detectors as well as water flow and sounding devices.
- ANSI cadence pattern output.
- Four programmable (Style Y) supervised signal circuits, including steady, pulse and temporal.
- Programmable smoke verification, pre-alarm delay, and cross-zoning can minimize false alarms.
- Four general purpose relays (Form C 24 V at 2.5 A resistive).
- Built-in approved digital communicator with UL required priority reporting.
- Flexible programming capabilities including up/downloading and use of remote annunciator.
- Accu-Zone® diagnostics facilitate local and remote troubleshooting.
- Walk Test.



5207

Specifications

Operating Voltage:	24 VDC
Primary AC:	120 VRMS @ 60 Hz 2A
Total DC Load:	5A @ 24 VDC
Current:	
Standby	120 mA
Alarm	700 mA (max)
Dimensions:	16" W x 26.4" H x 4" D (40.6 cm W x 67 cm H x 10.2 cm D)
4 form C Relays:	24 Volts @ 2.5 amps resistive
Operating Temperature:	32ºF to 120ºF (0ºC to 49ºC)
Indicator Lights:	
AC/DC (Green)	ON=System running on AC Flashing=On DC Power
Alarm (Red)	ON=Supervisory Alarm Flashing=Fire Alarm
Trouble (Yellow)	ON=Trouble Condition OFF=No Troubles
Silence (Yellow)	ON=If trouble or alarm has been silenced
Memory (Yellow)	ON=if an Alarm is reset
Set Mode Report (Yellow)	ON=If panel is in test or program mode Flashing=Panel reporting

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Optional Accessories

Model 5230 Remote Annunciator
This 4-wire, 16-zone remote annunciator English-language is easy to operate. Its fourteen function keys can perform the same operations as the main system annunciator, including silencing, resetting, and the displaying of alarms, troubles and alarm memory. The Model 5230 can be used to program all programmable options and with the use of access codes prevent unwanted tampering.

Zone Expansion
The 5210 adds eight additional Class B (Style A) zones to the 5207, enabling use of both 2- and 4-wire smoke detectors.

Model 4180 Status Display Module
The 4180 provides 16 outputs to give alarm and trouble conditions by zone. Two units can be connected to annunciate all 16 zones on a 5207 control. The 16 outputs can be used to drive LEDs or a graphic annunciator. (Non-supervised)

Model 7181 Fire Zone Converter
Converts Class B zones to Class A and vice versa.

Model 5220 Direct Connect Module
Used for city box and polarity reversing direct wire applications.

Model 5530 Downloading Modem
SIA format modem for remote programming the 5207.

5541 Downloading Software
For remote programming the 5207 with an IBM or compatible personal computer. Requires a 5530 modem. The modem and software can be purchased as a package, order P/N 5561.

5260 Printer Interface
Allows connection of a standard computer printer to provide a printed record of the 5207 system activity. (Printer not supplied.)

Engineering Specifications

The contractor shall provide a complete electrically supervised fire alarm and communications system. The system shall contain a fire alarm control/communicator and panel to supervise and operate heat and product of combustion detection devices, alarm signal devices, visual annunciator and an integral digital communicator to transmit fire alarm and supervisory signals to a central station. The control/communicator shall be UL listed or FM approved for under NFPA 72 for Central Station, Local Protection, Remote Signaling, and Auxiliary Signaling standards. It shall provide power and control for eight supervised detection zones, four supervised alarm signal circuits and a dual phone line digital communicator. The control/communicator shall be expandable to sixteen supervised detection zones and shall be able to communicate to a central station in SIA, SK FSK1, SK 4/2 or Radionics BFSK formats. The control/communicator shall be model 5207.

There shall be two Class A and six Class B detection zones. They shall accommodate heat detectors, products of combustion detectors, manual pull stations, sprinkler flow switches and gate valve supervisory switches intermixed as permitted by NFPA 72. Products of combustion may either be 2- or 4-wire and shall be cross listed by UL for use on the system. The detection zones shall be programmed to (1) be cross zoned so that two individual zones must sense products of combustion, (2) automatically reset a detector to verify that products of combustion exist, (3) see a single detector in alarm before the alarm is sounded and a signal is transmitted to the central station.

There shall be four 1 amp supervised (Style Y) alarm signal circuits. They shall cause the notification appliances to ring steady/pulsing/temporal throughout the premises until reset or silenced.

The control shall be equipped with four auxiliary relays that shall be programmed to operate on (1) pre-alarm, (2) tamper alarm, (3) special alarm, (4) fire alarm, (5) trouble, (6) no-silence, (7) alarm by specific zone (1-16). The relays shall remain energized until the panel is silenced, reset or the trouble condition is cleared, unless “no-silence” is selected.

The control/communicator shall have an integral annunciator to indicate sequentially zones in trouble and system functions. LEDs shall augment the display to make clear to an operator the system status. Am integral touchpad shall be provided to operate and interrogate the system. Vital operations such as alarm silencing or reset shall be simple and obvious to an operator. Authorization pass codes may or may not be used.

The control/communicator shall have the capability to supervise two telephone lines, seize the phone line, and send the alarm signal on one or both lines without the addition of any more equipment. It shall sound a local trouble signal if the telephone service is interrupted for longer that 45 seconds and it shall transmit a signal indicating the loss of phone line service to the central station over the remaining phone line. A signal shall also be transmitted indicating the restoral of phone service. The control/communicator shall be able to report the loss of either phone line without regard to which line failed initially. If both lines fail, a local signal shall sound.

The control/communicator shall have the ability to send a test signal to the central station every 24 hours. the test signal shall be able to be transmitted at a specific time of day or night by setting a program feature within the panel.

The alarm signals transmitted to the central station shall indicate which of the eight zones is in alarm and which zones are in trouble, depending on which format is used. Restoral from alarm or trouble signals shall also be transmitted by zone. The control/communicator shall be capable of communicating to Silent Knight, Radionics or Ademco central station receivers.

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