



Model 5204 Fire Alarm Control Panel and Optional Digital Communicator



Silent Knight's 5204 is compact and easy to install and service, delivering features you'd expect to find in systems costing much more.

The Silent Knight Model 5204 Fire Alarm Control Panel is a local fire evacuation control panel designed for applications requiring manual and automatic fire alarm as well as water flow and sprinkler supervisory service.

Description

The basic 5204 unit offers local fire alarm control for up to four zones and central station communications with the optional UL Listed Model 5205 Digital Communicator. The 5204 provides 3 amp current for external devices and two 1.5 amp supervised notification circuits. The system is compatible with both 2- and 4-wire smoke detectors.

The 5204 includes an annunciator inside the cabinet for annunciation and operation. LEDs are visible without opening the cabinet. Operation keys include SILENCE, DIALER RESET, and DISPLAY TROUBLES.

Remote annunciation is available through the optional Model 5230. This four-wire annunciator can perform the same operation as the main system annunciator and features English-language LCD display.

Features

- The 4 Class B zones are interchangeable to Class A using the Model 7181 Zone Converter.
- Fuseless design reduces service calls.
- Field selectable 24 or 12 VDC power supply.

- 3 amp current output available for external devices.
- Compatible with 2- and 4-wire smoke detectors as well as water flow and sounding devices.
- Two 1.5 amp supervised notification circuits programmable for steady, pulsing, temporal or supervisory
- Auxiliary outputs of 1.5 amp at 12 or 24 VDC and 175 mA at 12VDC (only)
- Smoke verification, pre-alarm delay and cross-zoning minimize false alarms.
- Two general purpose relays (2.5A dry contact, Form C)
- Optional plug-in UL Listed digital communicator (Model 5205)
- Up/downloading (reduces installation time)
- Programmable from on-board touchpad or optional remote annunciator (Model 5230)
- Accu-Zone™ diagnostics for on-site troubleshooting.

Specifications

Electrical Specifications:

Primary AC: 120 VRMS @ 60 hz, 2.5A
Total Accessory Load: 3A @ 12 or 24 VDC

Notification Circuits:

Two Class B 1.5A @ 12 or 24 VDC.
Programmable for steady, pulsing, temporal and supervisory for sprinkler system supervision.



5204

Auxiliary Outputs:

1.5A @ 12 or 24 VDC
175 mA @ 12VDC

Mechanical Specifications:

Dimensions:
14-7/8"W x 15-5/8"H x 4-1/4"D
(37.8 x 49.8 x 10.6 cm)

Color: Red

Telephone Requirements:

Type of Jack: RJ31X (2 required)

Approvals:

UL 864
NFPA 72 -Central Station Reporting
-Local Protective Signaling System
-Auxiliary Signaling System
-Remote Signaling

FCC Part 68 and Part 15

CSFM: 7165-0559:117

New York City: MEA 429-92-E



**SILENT
KNIGHT**

Model 5204

Fire Alarm Control Panel and Optional Digital Communicator



Engineering Specifications

The contractor shall provide a completely electrically supervised fire alarm control system. The system shall contain a fire alarm control panel to supervise and operate heat and smoke detection devices, alarm notification devices and visual annunciators. An optional digital communicator shall transmit fire alarm, trouble and supervisory signals to a central station. The controller shall be UL Listed for use under NFPA 72 standards. It shall provide power and control for four supervised detection zones, 2 supervised notification circuits, and, optionally, an approved plug-in digital communicator. The controller shall be Silent Knight 5204 or equivalent.

There shall be four Class B detection zones. Products of combustion detection may be either 2- or 4-wire and shall be cross-listed by UL for use on the system. The detection zones shall be programmable to (1) be cross zones so that two adjacent detectors must sense products of combustion, (2) automatically reset a detector to verify that smoke exists, and (3) see a single detector in alarm before an alarm is sounded, and, optionally, transmit a signal to the central station.

There shall be two 1.5 amp supervised alarm notification circuits. They shall cause the bells/horns to ring steady/pulsing/temporal through the premises until reset or silenced.

The control shall be equipped with two auxiliary relays that shall be programmable to operate on (1) alarm, (2) trouble, (3) supervisory, (4) supervisory trouble and (5) system trouble. The relays shall maintain contact until cleared.

The control shall have one on-board touchpad and shall support 3 remote annunciators. LEDs shall augment the display to clarify the system status to an operator. An integral touchpad shall be provided to operate, set up and interrogate the system.

The optional plug-in digital communicator shall be UL Listed for use under NFPA 72 standards. It shall have the capability to supervise two telephone lines, seize the phone line and send the alarm signal on one or both lines without additional equipment. It shall be able to communicate to a central station in SIA, SK FSK (4/2), SK4/2 tone burst, SK 3/1, SESCOA 3/1, Radionics BFSK. The communicator shall sound a local trouble signal if the telephone service is interrupted for longer than 45 seconds and it shall transmit a signal indicating restoral of phone service. The optional digital 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 within the communicator.

The alarm signals transmitted to the central station shall indicate which zones are in alarm and which zones are in trouble. Restoral from an alarm shall also be transmitted by zone.

Optional Accessories

5230 Remote Annunciator

Performs all the same functions as the on-board annunciator and features an LCD English-language display and backlighting.

5205 Digital Communicator

Performs all the same functions as the on-board annunciator and features LCD English-language display and backlighting.

5211 Auxiliary Relay

Enables ground start phone lines.

4180 Status Display Module

Provides 16 outputs to give alarm and trouble conditions by zone. Can be used to drive LED or graphic annunciators. Non-supervised.

7181 Fire Zone Converter

Converts Class A zones to Class B and vice versa.

5220 Direct Connect Module

Used for city box and polarity reversing direct wire applications.

5541 Downloading Software and 5530 Modem

For remote programming of 5204 and other Silent Knight products using an IBM PC or compatible computer.



**SILENT
KNIGHT**

7550 Meridian Circle, Maple Grove, MN 55369-4927

800-446-6444 or in Minnesota 612-493-6435

FAX: 612-493-6475

World Wide Web: <http://www.silentknight.com>

MADE IN AMERICA

FORM# 350778, Rev. 4/98

Copyright © 1998 Silent Knight