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SAFETECH™

Series 1000

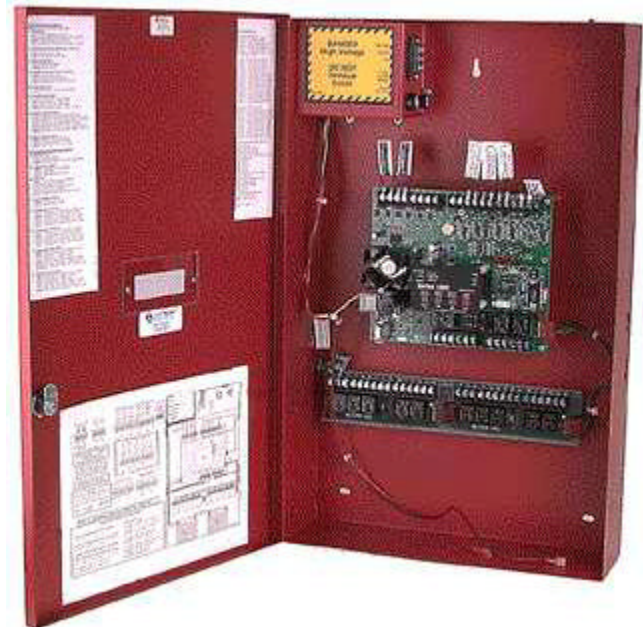
Control Panel

General Description

The Series 1000 is designed for commercial and industrial automatic, manual, supervisory, local and remote fire alarm system applications. It offers coded and non-coded operation.

This control meets today's need for more sophisticated protection in a more affordable package. The broad range of built-in features and completely programmable inputs, outputs, and relays offer the ultimate in flexibility of design and operation.

The Series 1000 control system family is economical and practical for the most basic of systems as well as more sophisticated applications.

**Standard Features**

- ◆ Three year warranty
- ◆ UL listed fire protective signaling (UL 864)
- ◆ California State Fire Marshal listed
- ◆ Conforms to NFPA 72
- ◆ 4-Character LED Display
- ◆ 2 or 4-Wire smoke detector compatible
- ◆ Non-volatile system memory
- ◆ 5 or 10 Programmable initiating circuits: 1 Class A; 4 or 9 Class B
- ◆ 2 Programmable Class B signal (bell) circuits
- ◆ Fully programmable via built-in keypad
- ◆ Sleep mode during A/C fail
- ◆ Fused, power-limited technology
- ◆ Surface mount technology
- ◆ Trouble and alarm resound

- ◆ 1 Set Form C alarm contacts
- ◆ 1 Set Form C trouble contacts
- ◆ 2 Auxiliary Form C relay outputs
- ◆ Single person walk test mode
- ◆ Alarm verification by zone
- ◆ 3 Amp power supply filtered and regulated
- ◆ 2 Auxiliary 24VDC programmable power outputs
- ◆ Made in U.S.A.

Plus (+) Model Additional Features

- ◆ Real-time clock display
- ◆ 1000 event history log
- ◆ RS232 and RS485 Serial Communication ports
- ◆ Software for network communications

Available Options

- ◆ 3 Amp power supply with 2 supervised class B signal circuits (IPB-3)
- ◆ Serial remote annunciator, surface or flushmount (RAN)
- ◆ Remote annunciator LED driver for graphic annunciators (RLD)
- ◆ Programmable by zone 5 Zone relay module (ZRM)
- ◆ Remote relay driver module (RRM)
- ◆ Zone expansion modules add zones to panels
- ◆ Digital Communicator and programmer (DACT, DACP)
- ◆ Auxiliary relay module (AUX)
- ◆ Network interface module (NIM)

Configuration

The Series 1000 family offers panels in two configurations: Standard and Plus (+).

The 1005 offers two Class B signaling circuits, one Class A or B and 4 Class B initiating circuits. A local sounder with resound gives distinct audible annunciation of Alarm, Trouble and Supervisory conditions. The 4-character LED display provides visual indication of the location and status of operating conditions.

Initiating circuits can be individually programmed for supervisory, waterflow, alarm verification, and auxiliary relay functions. Initiating circuits can be programmed to ring signal circuit one, two or both. Any unused initiating circuit can be turned off to conserve power and eliminate the need for an End of Line



Resistor (EOLR).

The signaling circuits are individually transient protected and can be silenced individually. Signal circuits can be programmed by initiating circuit to annunciate March Time (60 or 102 bps), Temporal Code, Pre-alarm Notification or a steady tone.

Two programmable signaling circuits (Class B) with a total of 3 amps of additional power can be added by using the IPB-3 In Line Power Booster. Up to 16 IPB-3 power boosters or Remote Annunciators can be networked to each Series 1000 panel.

Optional auxiliary system relays (AXR) and zone relays(ZRM) are programmable by the initiating zone and provide Form C contacts, rated at 10 amps.

The 1010 offers all the features of the 1005 with 5 additional programmable Class B initiating circuits.

The 1005+ and 1010+ models feature a clock display, RS232 and RS485 serial communication, battery backed event log and up/download capability.

The control unit is one of the most critical components of your life safety system. The Series 1000 design provides efficient power use, extensive lightning protection and compatibility with all 24 volt devices. The system is easy to install, program and service. With self diagnostics, "Smart" programming and advanced communication features, the affordable Series 1000 is the logical choice for your next installation.

Specifications

AC Power

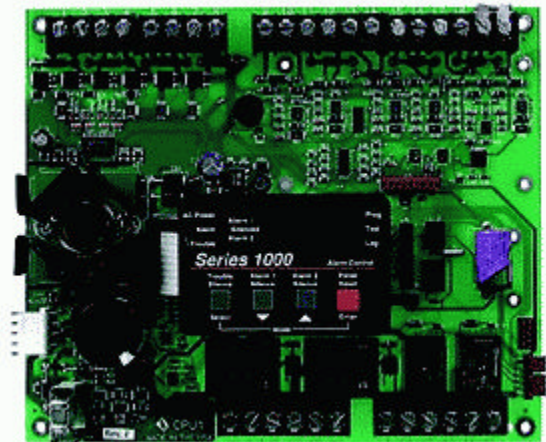
- ◆ 120 VAC or 220 VAC
50/60 Hz.
- ◆ Wire size: 14-20 AWG
- ◆ Built-in brown out circuitry
- ◆ AC input circuit breaker protected

DC Power

- ◆ 3 amps available for all sources
- ◆ Filtered and regulated
- ◆ Utilizes any 24VDC device
- ◆ 2 Programmable auxiliary power outputs
- ◆ Battery charging circuit protected by a fuse

Initiating Circuits

- ◆ 1 Class A or B circuit and 4 or 9 Class B circuits
- ◆ Monitor normally open (N.O.) or closed (N.C.) devices
- ◆ Programmable for standard, waterflow or supervisory modes



- ◆ Power limited and fully supervised
- ◆ 100 ohms of line resistance
- ◆ 14-22 AWG wiring

Signal Circuits

- ◆ 1.75 amps each circuit subject to 3 amp total available power
- ◆ Power limited and fully supervised
- ◆ 2 Class B circuits
- ◆ Programmable for steady tone, march time, double march time or temporal code

Cabinet Specifications

- ◆ Red 18 gauge CRS construction
- ◆ Knockouts provided on top, sides and back
- ◆ Surface or semi-flush mounting
- ◆ Space for batteries at bottom

Plus (+) models only

- ◆ Clock display
- ◆ Battery backed event log
- ◆ RS232 and RS485 serial communication ports

Annunciation

- ◆ Alarm, trouble and supervisory LED's per zone
- ◆ Includes backbox and choice of 2 faceplates
- ◆ Surface or flush mount
- ◆ Red 18 gauge CRS construction
- ◆ Sounder
- ◆ Remote silence and reset switch
- ◆ Up to 16 remote annunciators per panel
- ◆ RS485 communication
- ◆ 4-wire hook-up
- ◆ Requires Plus model or NIM module

Architect/Engineer Specifications

The fire alarm control system shall be a microprocessor controlled Series 1000 as manufactured by SAFETECH™ International, Inc.

The system shall contain a fire alarm control panel to supervise and operate manual and/or automatic actuation devices such as manual pull stations, heat and smoke detection devices, flame detection devices, gas detection devices, automatic fire sprinkler waterflow alarm and supervisory devices, as specified on the drawings. There shall be up to twenty programmable initiating zones. Detection may be either two- or four-wire devices and shall be UL listed for the purpose for which they are used for compatibility with the control panel and meeting the requirements of NFPA 72. All initiating zones shall be programmable for alarm verification, water flow alarm and be mappable to any signaling circuit. Supervisory alarms shall be annunciated on the display and by

the trouble buzzer.

The system shall supervise and operate notification appliances such as audible devices, strobe lights and visual annunciators. There shall be two supervised alarm signaling circuits which shall be programmable by initiating zone for continuous tone, two march time cadences or temporal code. The panel shall provide distinct and separate audible and visual indication of alarm, trouble and supervisory conditions. The panel sounder shall resound should a subsequent trouble or supervisory condition occur. The panel shall resound the signal circuits should a subsequent alarm condition occur. The signal circuits shall be individually silenceable from the panel keypad.

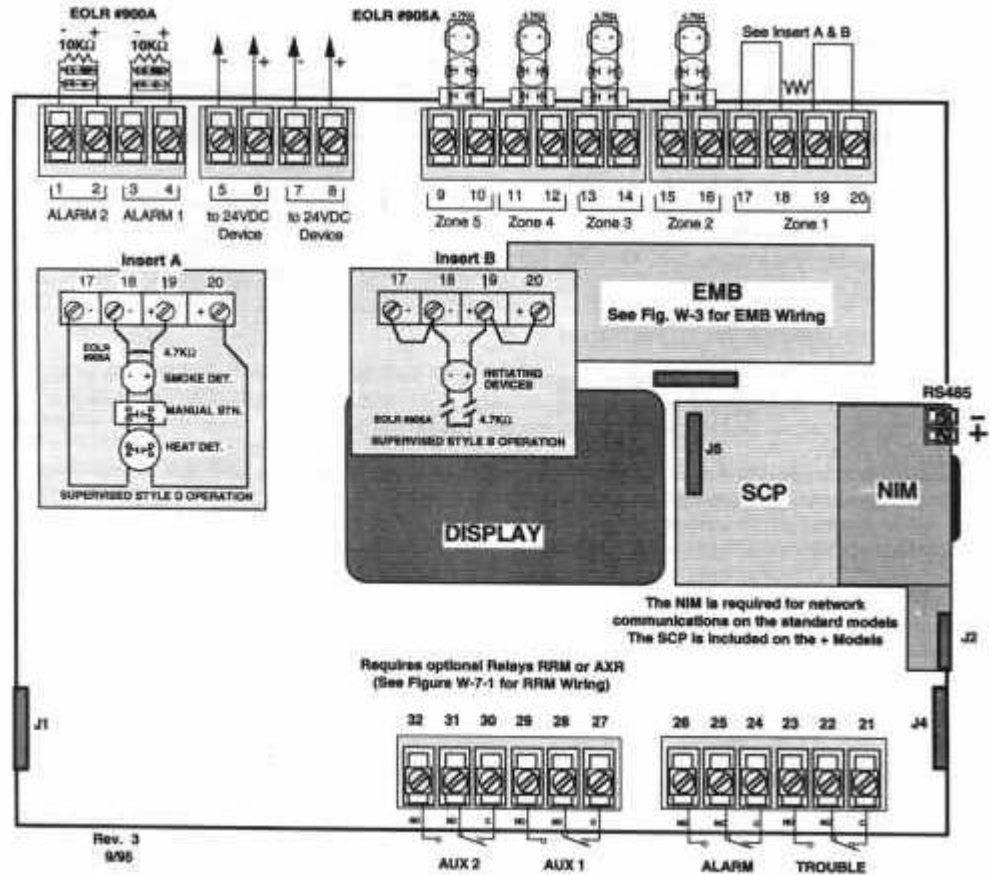
All programming shall be accomplished from the keypad mounted on the front of the panel. Annunciation of all alarm, trouble and supervisory conditions showing the zone number and type of condition shall be through the LED display on the panel front. The panel display shall be visible through a window in the cabinet door.

Programming and display codes shall be displayed on the interior of the cabinet door. The panel shall offer networking (optional modules may be needed), one person walktest, built-in diagnostics and battery backed event log (plus models). The control shall be equipped with programmable Form C alarm and trouble relays and offer the capacity for two programmable auxiliary relays with the option of adding two relays per zone. The relays shall maintain contact until cleared. All relays shall be rated at 10 amps. 24VDC auxiliary power shall be available through two outputs individually programmable to reset or not reset when the panel is reset.

Series 1000 Ordering Information

1005	Standard panel, 5 initiating zones, 2 signal circuits with cabinet and power supply
1010	Standard panel, 10 initiating zones, 2 signal circuits with cabinet and power supply
1005+	Plus panel, 5 initiating zones, 2 signal circuits with cabinet, power supply, event log, communication ports and clock display
1010+	Plus panel, 10 initiating zones, 2 signal circuits with cabinet, power supply, event log, communication ports and clock display
220V	220 Volt transformer assembly option
ZRM	5-zone relay board
RAN	Serial Remote annunciator, 3 LED's per zone with back box and faceplate, specify surface or flush mount
RLD	Remote LED driver, drives 10 zones of 3 LED's each zone for a graphic annunciator
EMB	After market 5 zone expansion module
IPB-3	In Line Power Booster, 3 amp, 2 signal circuits, 1 24VDC auxiliary output, programmable and fully supervised
AXR	Auxiliary relay for mounting in a socket on the main circuit board
RRM	Remote relay driver for mounting in a socket on the main circuit board, 0.5 amp 24VDC output to drive a remote relay
NIM	Network interface module, use to connect a serial annunciator to a standard model panel
DACT	Digital communicator, mounts inside cabinet for central station monitoring
DACP	Key pad/Programmer for the digital communicator

Series 1000 CPU1 Schematic



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