System 5000 Fire Alarm Control Panel Operator's Instructions

CPU

Normal Standby Operation: The green AC POWER LED must be on. All red alarm LEDs, green output status, and yellow trouble LEDs should be off.

Alarm Condition: The Red System Alarm and associated initiating zone LEDs will light. A steady audible tone will sound until the alarm is acknowledged or silenced. Alarm, indicating, and control outputs will be activated as programmed. Alarm LEDs flash until the alarm is silenced or acknowledged.

Alarm Silencing: Alarm signaling device may be silenced by depressing the SIGNAL SILENCE switch on the CPU-5000 (top left module). The SIGNAL SILENCED LED will light. Subsequent alarms will reactivate alarm outputs. *SIGNAL SILENCE should not be depressed until it is determined that an evacuation of buillding personnel is not required.* Note: Alarm silencing may be totally or partially disabled or delayed in some systems.

Alarm Reset: After locating and correcting the alarm condition, reset the control panel by depressing the SYSTEM RESET switch on the CPU-5000.

Acknowledge (Silence Tone): Depressing the ACKNOWLEDGE switch will turn the audible tone off and switch operation of associated LEDs from flashing to steady. New alarms and/or troubles will resound the audible tone and flash associated LEDs.

Modules

Disable/Enable: Pressing a control switch on a module while pressing the DISABLE/ENABLE switch will alternately enable/disable the associated circuit. This feature should be used only when it is necessary to temporarily bypass a malfunction or to remove a circuit while servicing the system. The yellow trouble LED on a disabled circuit will illuminate as well as the DISABLED CIRCUITS LED on the CPU-5000. *WARNING: A disabled circuit wil not provide fire protection.*

Manual Activation: Indicating, signaling and control relay circuits may be activated and deactivated manually by pressing their ON/OFF switches. Subsequent alarms wil reactivate deactivated outputs. Activated circuits are indicated by an illuminated green LED. *Note: Manual Activation may be disabled for some outputs.*

Trouble Condition: Activation of a trouble signal under normal operation indicates a condition that requires immediate correction. Carefully note illuminated LEDs and contact your local service representative. The audible tone may be silenced by depressing the ACKNOWLEDGE switch. Subsequent troubles will reactivate the audible tone. Trouble LEDs will remain illuminated until the troubles are corrected.

Operator's Manual: Refer to the System 5000 Operators Manual, Document 15581, Rev. D, for complete operating information.

Periodic Testing and Servicing: Periodic testing and servicing by qualified service personnel is essential to insure proper and reliable operation. Testing and servicing should be in accordance with the schedules and procedures outlined in: 1) NFPA standard 72H, "Guide for Testing Procedures for Local, Auxiliary, Remote Station and Proprietary Protective Signaling Systems;" 2) System 5000 manuals; 3) service manuals and instructions for peripheral devices contained in your system. Report any trouble condition or malfunction to your service representative immediately.

Operational Checks: Between formal periodic testing and servicing intervals, the following operation checks should be performed monthly or as frequently as required by the Authority Having Jurisdiction.

1) Check that the green "AC POWER" LED is illuminated

2) Check that all yellow LEDs are off

3) Holding "SYSTEM RESET" depressed should sequentially light all system LEDs.

4) Before proceeding, a) notify fire department and/or central alarm receiving station if alarm conditions are transmitted; b) notify facility personnel of test so that alarm sounding devices are ignored during test period; c) when necessary, activation of alarm indicating appliances and speakers can be prevented by depressing the ON/OFF SWITCH on the Indicating Appliance Circuit(s) or Speaker Circuit(s) to be disabled, while depressing the DISABLE/ENABLE switch.

5) Activate an Initiating Device Circuit via an alarm initiating device and check that all active indicating appliances function. Reset the alarm initiating device, the System 5000, and any other associated equipment. In voice alarm applications, confirm that the proper tone(s) and/or messages sound during alarm conditions. Select the paging function and confirm that the message can beheard in the affected fire zones.

6) Repeat Step 5 for each Initiating Device Circuit.

7) On systems equipped with a Fire Fighters Telephone circuits, initiate a call from a telephone circuit and confirm ring tone. Answer call and confirm communication with incoming caller. Terminate call and repeat for each telephone circuit in the system.

8) Remove AC power, activate an Initiating Device Circuit via an alarm initiating device and check that active indicating appliances sound, and alarm indicators illuminate. Measure the battery voltage while indicating appliances are activated. Replace any battery with a terminal voltage less than 21.6 volts. Replacement batteries may be obtained from Notifier. Minimal replacement battery capacity is indicated on the System 5000 marking label. Reapply AC Power. Note: This test requires fully charged batteries, if batteries are new or discharged due to a recent power outage, allow the System 5000 to charge batteries for 48 hours before testing.

9) Enable any Indicating appliance Circuit(s) that were disabled in Step 4C. Disabled circuits are enabled by first depressing the DISABLE/ENABLE switch on the CPU-5000, followed by depressing the ON/OFF switch on the disabled circuit.

10) Check that all yellow LEDs are off and that the green "AC POWER" LED is illuminated

11) Notify fire, central station and/or building personnel that test is complete.

NOTIFIER®
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In the event of trouble, contact the local Notifier Service Representative:

Name: _____

Company: _____

Address: _____

Telephone Number: _____

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System 5000 Voice Alarm Equipment

AMG-1 Audio Message Generator

Audio Level: **This green LED** is illuminated when the audio level is correct. When paging, talk loudly enough to cause this LED to illuminate. If the AUDIO LEVEL LED is allowed to remain off for 30 seconds, a system trouble will result.

All Call: **This green LED** toggles on and off with each depression of the ALL CALL SWITCH.

On Line: **This green LED** indicator is normally flashing to show that the CPU-5000 is communicating with the AMG-1.

Trouble: **This yellow LED** illuminates to indicate a trouble in local audio subsystem equipment (AMG, AA-30, FFT-7).

ALL CALL SWITCH: **The All Call Switch**, when pressed, can be used to activate all speaker circuits. These speaker circuits will deactivate when the All Call Switch is pressed again (toggle function), providing an alarm is not present. If an alarm is present, the speaker circuits may remain activated until manually turned off or until the system is reset.

SPEAKER VOLUME: **The Local Speaker** Volume control adjusts the volume of the speaker located on the AMG. It will not affect the volume of the speakers installed throughout the building. If neccessary, turn the volume down to prevent feedback during paging.

MICROPHONE: **The microphone** is used for paging. To page, select the speaker circuit(s) that you wish to page through by using the control switches on the VCM-4 or DCM-4 or by using the All Call Switch on the AMG-1. Depress switch on side of microphone and speak into the microphone. Talk loudly enough to cause the green Audio Level LED to illuminate.

Speaker Circuit Select: **To turn a speaker** circuit ON, press the control switch on the VCM-4 or DCM-4 module. The control switches will toggle the associated speaker circuits on and off. A green LED will illuminate to indicate when a circuit has been activated. Tone/Message Select: Use to select the alternate tone/message. The green LED lluminates to indicate that the alternate tone/message has been selected. Alternate tone/message will sound on selected speaker circuits.

Channel Select: (Dual-channel systems) **To select an audio** channel, use the control switches on the left side of the DCM-4 module. When Channel A is selected, the associated green LED will illuminate. When the LED is off, Channel B has been selected. The Channel Select switches toggle between selecting Channel A and Channel B.

FFT-7 Firefighter's Telephone

Page Mode: **This green LED** illuminates when the PAGE MODE Switch is depressed.

On Line: **This green LED** illuminates to show that the Sysytem 5000 is powering the Fire Fighters Telephone system.

Phone Trouble: **This yellow LED** illuminates to indicate a trouble in the Fire Fighters Master Telephone (FFT-7) Circuit.

Telephone Line Trouble: **This yellow LED** illuminates to indicate a trouble condition in the wiring between the FFT-7 and other elements in the system.

Page Switch: **The Page Switch** allows a firefighter to page from a Fire Fighters Telephone. To page, select the speaker circuit(s) that will carry the page by using the control switches on VCM-4 module(s), or by using the All Call Switch on the AMG-1 next to the FFT-7. Depress the Page Switch and talk loudly enough to cause the green Audio Level LED on the AMG-1 to illuminate.

Incoming Calls: **The green LED** on the VCM-4 module associated with the telephone circuit will flash, and the System 5000 piezo will sound to indicate the incoming call. To answer the incoming call, pick up the master handset and press the control switch on the VCM-4 module next to the green flashing LED. Wait until the caller has been connected (audible click in the receiver). To disconnect the call, momentarily press the telephone circuit control switch on the VCM-4 module again.

Remote Phone Paging: **Answer the incoming** call from the telephone circuit as described above. Press the PAGE button on the AMG-1, illuminating the yellow Page Mode LED. Select speaker circuits by pressing control switches on the associated VCM-4 or DCM-4 module or by depression of the ALL Call switch on the AMG-1 next to the FFT-7. Any fireman connected via the telephone circuit control switch can page through the selected speaker circuits.

ATG-2 Audio Tone Generator

The ATG-2 provides user-selected tones for single- or dual-channel output. The ATG-2 generates either a slow whoop, Hi/Lo or steady tone on the primary (EVAC) channel. In dual-channel operation, the ATG-2 also generates either a chime or a 20 pulses-per-minute tone on the secondary (ALERT) channel.

On Line: **This green LED** indicator is normally illuminated to show that the AM2020 is communicating with the Audio Tone Generator.

Evac Channel: **This green LED** illuminates to show that paging will occur over the EVAC channel

Alert Channel: **This green LED** illuminates to show that paging will occur over the ALERT channel.

Trouble: **This yellow LED** illuminates to indicate the presence of a trouble in local audio subsystem equipment (AMG, AA-30, FFT-7).

PAGE SELECT Switch: **The Page Select Switch**, when pressed, is used to choose between EVAC and ALERT channels for paging. The respective LED will illuminate when that channel has been selected.

Microphone: **The microphone** is used for paging. To page, select the desired channel by pressing the PAGE SELECT SWITCH until the respective LED illuminates. Depress switch on side of microphone and speak into the microphone.

FFT-7S Firefighter's Telephone (stand-alone version of the FFT-7)

On Line: **This green LED** illuminates to show that the AM2020 is powering the Fire Fighters Telephone system.

Phone Trouble: **This yellow LED** illuminates to indicate a trouble in the Fire Fighters Master Telephone (FFT-7S) Circuit.

Line Trouble: **This yellow LED** illuminates to indicate a trouble in the Fire Fighters Telephone wiring (wiring between the FFT-7S and other elements in the audio evacuation system, such as XP Transponder modules).

Incoming Calls: **The yellow LED** on an annunciator point mapped to the telephone circuit will flash, the red LED will illuminate steadily, the piezo willl beep. Do not press the Acknowledge Switch in this case! To answer the incoming call, pick up the master handset and press the control switch next to this annunciator point(s). Wait until the caller has been connected (audible click in the receiver). To disconnect the call, momentarily press the telephone circuit annunciator point control switch again.

Frame and mount these Operator's Instructions adjacent to the System 5000 for ready reference.

If the System 5000 does not contain any voice alarm equipment this sheet can be cut off from the main operator's instructions to be framed.