5. Special Application Programming and Operation

5.1 Local Protective Signaling System

At least one audible appliance must be installed.

5.2 NFPA 72 Central Station

Please refer to section 1.3.1.2 for the UL minimum requirements for a central station monitored system. To program the panel for NFPA 72 Central Station Operation requires two steps:

1. Establish the AC Fail delay in the System Level
   Select PROG function key
   Select Item 2 – System ss
   Select Item 2 – Timing
   Select Item 1 – AC Low Delay and toggle to select 8-hour delay
2. Connect Zeta Alarm Systems' UL listed and compatible ZNDC dialer as shown in Appendix F.

5.3 NFPA 72 Remote Station

Please refer to section 1.3.1.3 for the UL minimum requirements for a remote station monitored system. To program the panel for NFPA 72 Remote Station Operation requires two steps:

1. Establish the AC Fail delay in the System Level
   Select PROG function key
   Select Item 2 – System
   Select Item 3 – Timing options
   Select Item 1 – AC Low Delay and toggle to select 16-hour delay
2. Connect Zeta Alarm Systems' UL listed and compatible ZNDC dialer as shown in Appendix F.

5.4 Special Output Group Operation

Output Group 91 is the Non-Reporting group. When using an ZNDC to communicate with a Central Station, points assigned to this group will not be reported to the Central Station if an alarm or trouble occurs.

Output Groups 92-95 are Schedule groups. Any outputs in these groups will turn on and off based on the associated output schedule. See section 4.2.2.2 for schedule programming.

Output Group 96 is the Waterflow group. Monitor Modules selected for Waterflow service should be placed in this group by during programming.

Output Group 97 is for Supervisory Service. Points selected for supervisory operation should be placed in this group during auto programming.

Output Group 98 is the General System Trouble Group. The System Trouble Relay is placed here by default.

Output Group 99 is the General Alarm Group. All alarm inputs and all outputs not selected for other service are placed here by default during auto programming.

5.4.1 Waterflow Point Programming

Any switch monitor module point on the SLC or any conventional input point on the serial bus may be programmed for the waterflow function. The panel allows for the waterflow alarm to be silenceable if required by the local authority having jurisdiction.

PLEASE NOTE: NFPA 72 requires waterflow zone alarms be non-silenceable and sound a continuous output alarm. For Central Station monitored systems, no more than five waterflow devices maybe utilized on a single switch monitor module in the Class A configuration.

To program an input point for waterflow alarm operation, follow these steps:

1. Install monitor module and connect (See Section 2, Figure W-6 for connection).
2. module SLC address.
3. Select PROG from the menu (enter access privilege code if necessary).
4. Select 6. Points from the main programming menu.
5. Select 5. Auto-Program. Wait while the panel loads the “new” device information.
6. To access the monitor device you wish to use for the waterflow device:
   Select 1. Point, then enter the loop. Press ENTER, enter the device address, then ENTER again.
7. Select 2. Edit
8. Select 4. Options.
9. Press 1. Type until “Waterflow” is displayed, Press ENTER
10. Press 2. Label to edit the 40-character, alphanumeric label.

To associate the address with Output Group 96 which is not silenceable:

1. From the Point Edit menu, Select 3. Groups and enter Group 96.
2. Press Enter to store the new settings
3. Press RESET to update the SLC loop flags.

Review all programming selections to insure programming accuracy.

5.4.2 Supervisory Point Programming

Any switch monitor module point on the SLC or any conventional input point on the serial bus may be programmed for supervisory operation.

PLEASE NOTE: For NFPA applications, no more than 20 normally open supervisory devices may be utilized on any zone.

To program an input point for supervisory alarm operation, follow these steps:

1. Install monitor module and connect (See Section 2, Figure W-6 for connection).
2. Set module SLC address.
3. Select PROG from the menu (enter access privilege code if necessary).
4. Select 6. Points from the main programming menu.
5. Select 5. Auto-Program. Wait while the panel loads the “new” device information.
6. To access the monitor device you wish to use for the waterflow device:
   Select 1. Point, then enter the loop. Press ENTER, enter the device address, then ENTER again.
7. Select 2. Edit
8. Select 4. Options.
9. Press 1. Type until “Supervisory” is displayed, Press ENTER
10. Press 2. Label to edit the 40-character, alphanumeric label.

To associate the address with Output Group 97 which does not ring the general alarm:

1. From the Edit menu, Select 3. Groups and enter Group 97.
2. Press Enter to store the new settings
3. Press RESET to update the SLC loop flags.

Review all programming selections to insure programming accuracy.

5.4.3 Remote Key Reset/Silence

To program an input point for operation as a remote keyed reset or silence station, follow these steps:

1. Install monitor module and connect (See Section 2, Figure W-6 for connection).
2. Set module SLC address.
3. Install Remote Key Reset Station or Silence Switch as shown in device installation instructions.
4. Select PROG from the menu (enter access privilege code if necessary).
5. Select 6. Points from the main programming menu.
6. Select 5. Auto-Program. Wait while the panel loads the “new” device information.
7. To access the monitor device you wish to use for the Remote Key Reset/Silence function: Select 1. Point, then enter the loop. Press ENTER, enter the device address, then ENTER again.
8. Select 2. Edit
9. Select 4. Options.
10. Press 1. Type until “Rem Silence or Rem Reset” is displayed, Press ENTER
11. Press 2. Label to edit a 40-character, alphanumeric label.

Review all programming selections to insure programming accuracy.

5.4.4 Floor Above/Floor Below

The system can be used up to 90 stories or levels. By simply programming one output group for each floor and inserting the floor number into the output group characteristics, the panel is programmed to activate the floor(s) above and below the floor in alarm according to the system program Floor Configuration setting. (refer to Section 4.2.2.1 System Options)

For example, assume the panel was set up for “1 Above / 1 Below”, and output group 1 was configured as floor #1, output group 2 was configured as floor #2, and output group 3 was configured as floor #3. When an input in group #2 goes into alarm, the outputs in group #2 would be activated, as well as the outputs in group #3 (the floor above) and the outputs in group #1 (the floor below).

To achieve proper operation, the following requirements must be met:

- At least one output control module or relay must be on each floor, and all notification appliances on that floor must be controlled by the control module(s) or relay(s) designated for operation on that floor.
- Each input point on the same floor must be associated with the output group for that floor.

Review all programming selections to insure programming accuracy.

5.5 Time Control Operations

Time schedule groups are groups 92-95, with each group being associated with a different timing schedule. By placing an output point in output group 92 and setting the associated schedule, the output point will turn on and off at the times recorded in output schedule 1. Output groups 93-95 provide timing schedules #2, #3, and #4.

To program an output point for use on a Timing Schedule, follow these instructions:

1. Install the ZZRM relay, or supervised output control moduleor I/O relay and connect (See Section 2 for connection).
2. Select PROG from the menu (enter access privilege code if necessary).
3. Select 6. Points from the main programming menu.
4. Select 5. Auto-Program. Wait while the panel loads the “new” device information.
5. Select 1. Point, then enter the loop. Press ENTER, enter the device address, then ENTER again.
6. Select 2. Edit.
7. Select 3 Groups.
8. Enter Group 92, 93, 94, or 95 (Note: If an output is in one of the on/off schedule groups, it can be in any number of other groups).
9. Make sure the output schedule has been programmed.

Review all programming selections to insure programming accuracy.

5.6 Program Your Own Applications

1. Desired Results

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2. Steps required to Implement

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

Review all programming selections to insure programming accuracy.

Run Copies to allow you to record application programming.