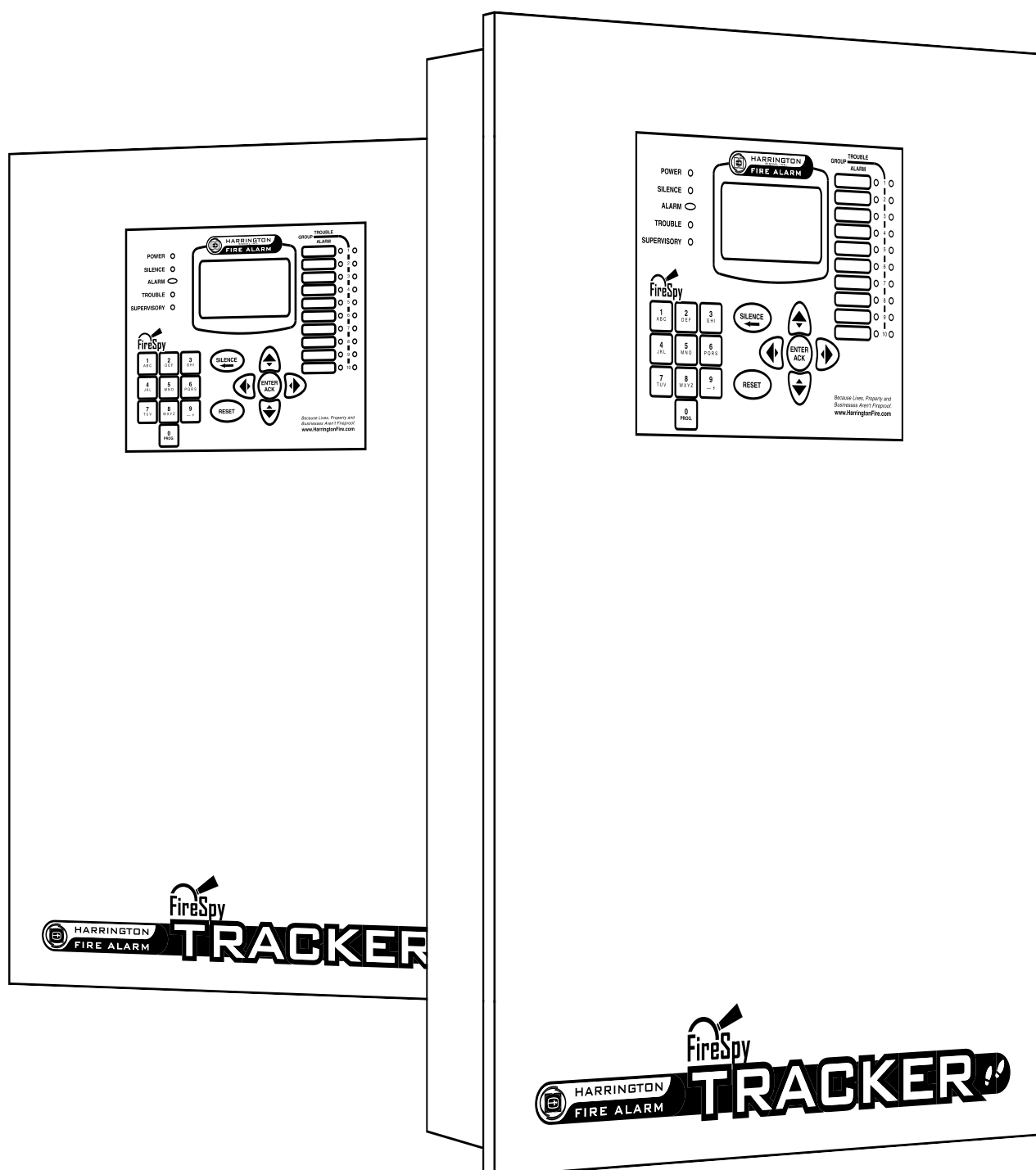
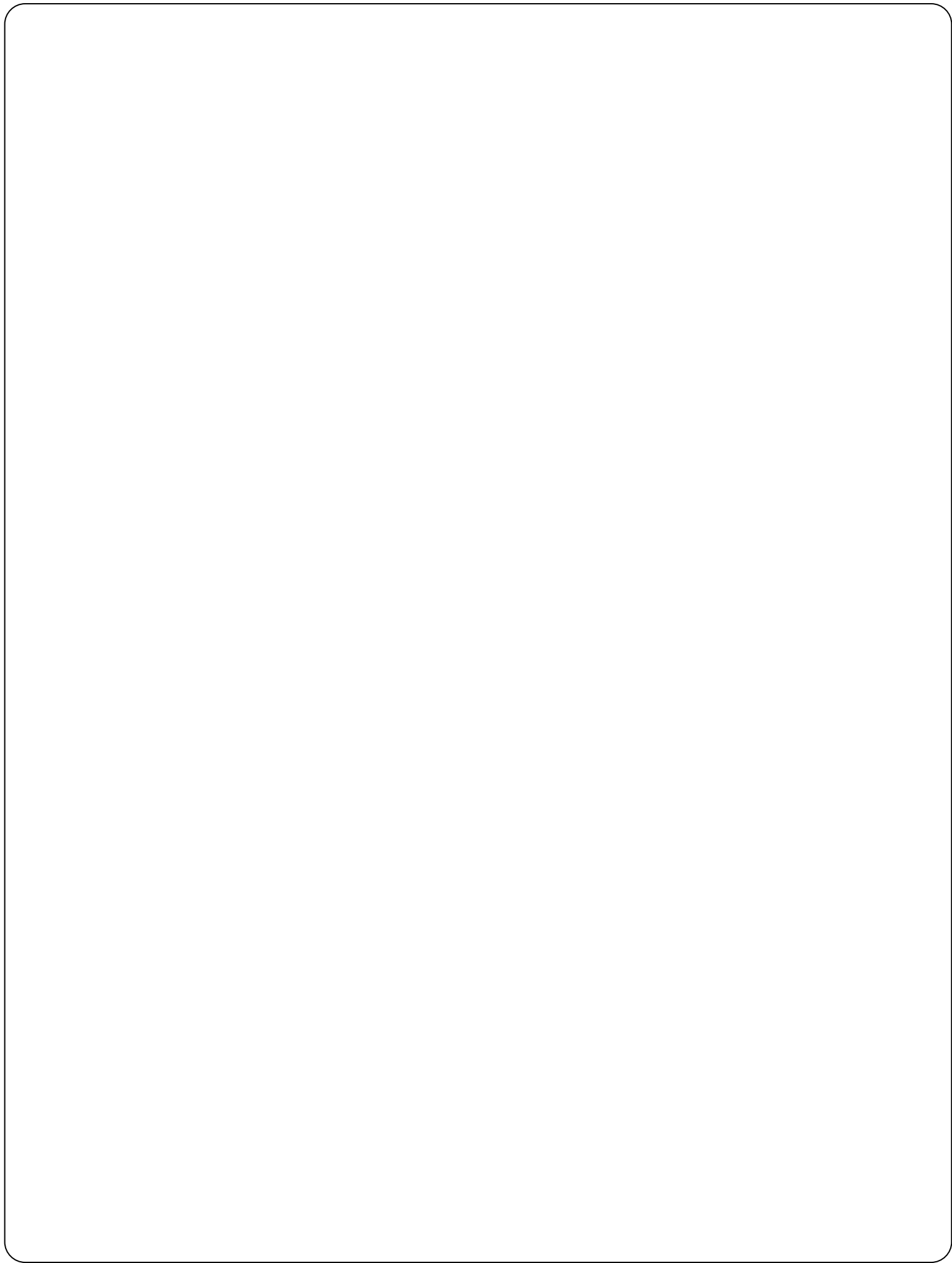


Programming Manual FireSpy® Tracker T1000, T2000, T8000 Fire Alarm Systems





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1 Preliminary Information

1.1 Safety messages – Please read before proceeding

People's lives depend on your safe installation of our products. It is important to read, understand and follow all instructions shipped with this product. The equipment described herein is listed by the NRTL only when installed and configured in the manner described herein

It is possible to install equipment incorrectly or arrange system components and installation wiring in such a manner that life safety functions are not properly performed and, as a result, lives may be lost. To minimize this possibility, become familiar with the system layout and operation of the entire Fire-Protective Signaling System. Do not alter any mechanical or electrical features of the equipment supplied. Become familiar with the Building Code and Fire Prevention Code or other authority having jurisdiction requirements in the area of the installation.

The Facilities Engineer and the Safety Engineer should make selection of mounting location for this equipment and routing of wiring. Listed below are some other important safety instructions and precautions you should follow:

- This unit must be installed by a qualified electrician in accordance with NFPA 72, and national and local electrical and fire codes, under the direction of the authority having jurisdiction.
- Only authorized and competent personnel must be allowed access to panel controls or panel power source, to limit the possibility of malfunction or failure.
- Do not connect this unit to system wiring when circuits are energized. Check field wiring lines to ensure that voltages are not present. Warranty is void if the equipment is damaged by improperly connected untested wiring or if fused improperly.
- The equipment must be connected to a dedicated source of reliable AC power adequate for the rating of the system as configured. The source must be secure and properly labeled "Fire Alarm Circuit Control".
- A suitable battery set must be used to assure required operation in case of primary power loss. The battery set must be replaced after 4 years, or earlier if capacity is excessively reduced. The batteries should be checked at least twice per year, or more often if required by local codes.
- Wiring used in the system must be adequate for the service and installed in accordance with applicable codes.
- Devices used in the system and connected to the control panel must be verified compatible with the panel.
- All effective warning speakers produce loud sounds which, in certain circumstances, may cause permanent hearing loss. Take appropriate precautions such as wearing hearing protection. Recommendations in OSHA Sound Level Standard (29 CFR 1910) should not be exceeded.
- After installation and completion of initial system test, provide a copy of this instruction sheet to all personnel responsible for operation, periodic testing and maintenance of this equipment.
- After installation, ensure that all bolts and threaded joints are tightened.
- After installation and completion of initial system test, a program for periodic testing of this device must be established. Proper periodic maintenance is required to assure operation through the life of the system, and to determine that point at which useful life of the system or of any of its components has been reached. Any malfunctioning units must be repaired or replaced immediately by competent, authorized personnel. Refer to NFPA 72, local Fire Codes and the authority having jurisdiction.
- Instructions for proper response by building occupants must be developed and distributed in accordance with the Building Code and Fire Prevention Code or other authority having jurisdiction.
- Unauthorized repair or servicing of equipment may result in degradation of performance and/or property damage, serious injury, or death to you or others. If a malfunctioning unit is encountered, do not attempt any field repair/retrofit of parts.

Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death to you and others.

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The programming technician is ultimately responsible for conformance to the applicable codes and purchase order.

This manual cannot cover all details or contingencies which could exist in a system application. Refer to the authorized distributor if additional information is required.

Specifications are subject to change without notice.

1.2 Warranty

Harrington Signal products are covered by a limited warranty. See Harrington's warranty statement for more details (document #780-0762)

1.3 Support

If you have any questions or concerns about installation, operation, or programming of our equipment, please contact us at:

Harrington Signal Inc.
2519 – 4th Ave
Moline, IL 61265

Toll Free: (800) 577-5758
Tel: (309) 762-0731
Fax: (309) 762-8215
Email: techservices@harringtonsignal.com
Web: <http://www.harringtonfire.com>

FireSpy is a registered trademark of Harrington Signal Inc.

2 General programming concepts

Functional programming of the panel is accomplished through an annunciator or with the PC Programmer on a PC attached to the communication port of the motherboard. AutoLearn, an automatic programming mode, is provided to assure identification and application of all detectors and modules on the system, but detailed system programming is required for proper realization of the system's capabilities.

2.1 Settings not allowed by regulations

NOTICE TO USERS, INSTALLERS, AUTHORITIES HAVING JURISDICTION, AND OTHER INVOLVED PARTIES:

This product incorporates field-programmable software. In order for the product to comply with the requirements in the Standard for Control Units and Accessories for Fire Alarm System, UL864, certain programming features or options must be limited to specific values or not used at all as indicated below.

Table 2-1: Settings not allowed by regulations

Program feature or option	Regulation*	Settings not allowed	Settings allowed**
Control modules used for alarm notification and on the same SLC	UL864 51.4.3	Any that would allow a fault on the SLC to affect more than one alarm notification zone that uses addressable control modules intended for alarm notification	Assign all output devices on an SLC that are intended for alarm notification to the same group OR Use Style 7 wiring between output devices on a single SLC that are intended for alarm notification and that are assigned to different groups
Multiple detector operation Number of detectors	UL864 55.3	Requiring more than two detectors to cause an alarm	Requiring 1 or 2 detectors to cause an alarm
Multiple detector operation Use of timing features	UL864 55.3	Using a timing feature when more than one detector is required to cause an alarm.	Do not use any timing features (alarm verification, etc.) when more than one detector is required to cause an alarm.
Alarm verification Time limit	UL864 89.1.10	Using an alarm verification time of more than 60 seconds.	Set the alarm verification time to 60 seconds or less.
Alarm verification Time limit	CSFM	Using an alarm verification time of more than 30 seconds.	Set the alarm verification time to 30 seconds or less.

* Sections cited are from UL864 ninth edition

2.2 Standalone vs. networked panel

A networked panel provides the same local operations and features as a standalone panel, plus the operations and features offered by the network connection. A panel performs building monitoring of its location regardless of whether it is standalone or networked.

2.3 Preparation of the program

Standalone panel

Preparation of the program involves defining all detectors and modules, assigning software groups (zones), and assigning input and output devices to the groups. Each input and output device can be associated to 10 groups (for I/O modules, the input can be associated to 5 groups and the output can be associated to 5 groups). There are up to 250 groups available for use.

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2.4 Quick configuration with AutoLearn

Standalone panel

Initial configuration with AutoLearn will give all devices their initial default parameters, and assign input and control devices to group 201. Performing AutoLearn is recommended to assure that all accessories are as selected and at the assigned addresses.

The recommended initial AutoLearn consists of the following steps.

1. Scan the network
2. Browse the network devices and confirm that the system found all the devices it should have and verify the version number displayed for each. A label on the inside of the door indicates the factory version numbers.
3. Scan all installed SLCs. SLC scanning can be performed on all SLCs system wide or limited to a specific SLC or a specific address.
4. Browse through the SLC devices found and change the parameters as needed.

NOTE: *AutoLearn will NOT automatically enable an installed UDACT module. It must be manually enabled and configured.*

Subsequent operation of the AutoLearn will verify, via user confirmation, those items that are different from the current operating configuration to assure complete programming. The user can then browse to the changed device to edit the device's parameters. Subsequent AutoLearn will not change properly programmed devices, but will assign new or non-conforming devices as above, and identify them.

2.5 Final configuration (manually)

The AutoLearn provides a good starting place, but the system provides many more options that may need to be configured based on the application. Final configuration is entered through the annunciator menu interface or through a PC connected to the communication port. Description labels of devices and groups can be entered using either method.

2.6 Making changes to the system

Perform a scan on the circuits that have devices added or removed. If only a few devices are going to change, it is quicker to scan only the affected addresses. The panel can scan for a single address or for changes on a single SLC. After scanning and finding the changes, browse to the applicable addresses and program as needed.

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3 Features and settings

Following is a presentation of the selections to be made in programming the panel. Full data should be prepared in advance to assure that programming may be completed when once started.

3.1 Using AutoLearn

AutoLearn is the fastest way to get started with a configuration and for adding or removing devices. See *2.4 Quick configuration with AutoLearn* for more information.

3.2 Factory default

Performing the factory default operation restores all programming options to their factory default state after which it will do an AutoLearn to find the modules and scan the devices.

3.3 Global settings

3.3.1 Customer text

The customer text is displayed on the annunciator display screen when the system is in the normal standby condition. The customer text can be up to two lines of 20 characters in length.

3.3.2 Passcodes

The maintenance menus and the programming menus on the annunciator are passcode protected. The passcodes can be changed through programming. The passcodes are eight digits in length.

3.3.3 Clock

The clock can be displayed in 12 hour format or 24 hour format.

3.3.4 Timers and schedules

Silence inhibit

The silence inhibit timer prevents an alarm from being silenced until the timer expires. The timer starts when an alarm condition is initiated. The silence inhibit timer can be set in 30 second increments from 0 (disabled) to 600 seconds (5 minutes).

Auto silence

The auto silence timer automatically silences output devices on the system after an alarm occurs. The timer can be set in 15 minute increments from 0 (disabled) to 60 minutes.

Output delay

The output delay timer delays the activation of outputs until the timer expires. The timer can be set to 0 (disabled), 10, 30, or 60 seconds. The timer is global, but individual devices can be removed from the effect.

Trouble reminder

If a trouble is acknowledged/silenced, the trouble condition resounds after 24 hours. The trouble reminder can be enabled or disabled.

AC trouble delay

If the panel detects an AC trouble condition, the off-site reporting of the trouble is delayed. This prevents nuisance reports at the monitoring station when AC brownout conditions occur in the building's power. The delay can be set to 60 or 180 minutes.

Day/night schedules

Up to four day/night schedules are available, each providing a "day" sensitivity level, a "night" sensitivity level, and a selection of which days of the week the schedule affects. Each applicable detector (see *Sensitivity adjustment* in section 3.7.1) can be mapped to one of the four schedules.

Holiday schedules

Up to 20 holidays are available to work in conjunction with the day/night schedule set for each applicable detector. The system applies the night sensitivity level for the duration of 24 hour periods that are defined as holidays to all detectors that use that schedule.

On/off schedules

Up to four on/off schedules are available to control outputs. Each output device can be activated and deactivated three times during a 24 hour day according to its schedule.

3.3.5 Trouble latching/nonlatching

Trouble events can be globally configured as either latching or nonlatching. Latching events cause the panel to stay in the trouble condition until manually reset. Nonlatching events restore the panel when the event is no longer active.

3.4 Local groups

The system operates using the concept of groups. Each system input (detector, module or input NAC) and output device can be associated to up to 10 groups. For I/O modules, the input can be associated to 5 groups and the output can be associated to 5 groups. If an input goes active, the system activates all of the outputs that are in the same groups that the input is in. There are up to 250 groups available for use.

Each group can be individually configured for the settings below.

- Description text label. A 20 character description can be entered for each group.
- Enabled or disabled. A trouble condition exists on the control panel while a group is disabled.
- Alarm LED. The alarm LED corresponding to the number entered illuminates on the annunciator when an alarm condition exists on the group.
- Trouble LED. The trouble LED corresponding to the number entered illuminates on the annunciator when a trouble condition exists on the group.
- Alarm count. When the number of alarms in the group reaches the number set as the alarm count, an alarm occurs. Can be set from 1 to 9.

See *Table 2-1: Settings not allowed by regulations* for important information.

3.6 Zones

Each input point can be mapped to a zone. Each zone can map up to three outputs on the T8000-LDV graphic annunciator: one for alarm, one for supervisory alarm, and one for trouble. Up to 250 zones are available and up to 250 outputs on the LDV.

3.7 SLC devices

3.7.1 Fire detectors

Basic settings

The system supports the following types of SLC detectors: photo, ion, heat, and multisensor (photo/heat). Each can be individually configured (see the Installation manual for a list of compatible model numbers). Each detector can be assigned to up to 10 groups (1-250). Each detector can be enabled or disabled, but a trouble condition exists on the control panel while a detector is disabled. A two line by 20 character description can be entered for each detector.

Advanced detector features

The ISpy and Discovery series offer the following additional advanced features.

- The sensitivity settings can be adjusted.
- Drift compensation is performed within the detector device.
- The LED on the detector can be turned off so it doesn't blink.
- In the event of a protocol failure, the devices are still able to communicate an alarm condition via a conventional alarm mode.

Sensitivity adjustment

The sensitivity of ISpy and Discovery smoke and heat detectors can be adjusted. Three levels of adjustment are available: low, medium, and high and are configurable per detector type.

Note: *Ion detectors used in duct applications should be set to high sensitivity.*

Automatic sensitivity adjustment for day/night and holiday

The system can automatically adjust ISpy and Discovery smoke and heat detectors to a lower sensitivity while a building is occupied and to a higher sensitivity while it is not occupied. The day/night and holiday schedules provide scheduling for the automatic adjustments (see *Day/night schedules* and *Holiday schedules* in section 3.3.4).

Drift compensation

Smoke detectors (ion and photo) slowly become dirty from contaminants in the air during normal use. ISpy and Discovery smoke detectors have drift compensation built in, whereby the detector compensates for the contamination. Eventually, a detector will reach a point where it cannot compensate any more and will cause a service alert. Detectors set to the low sensitivity range will reach the limit of compensation sooner than detectors set to the high sensitivity range.

Automatic test and service alert

The panel performs a daily test to check the status of the smoke detectors (photo and ion). When a smoke detector becomes too dirty and fails the test, a service alert trouble occurs to notify building personnel that maintenance is required.

Pre-alarm

A detector with pre-alarm enabled causes a pre-alarm signal when the detector readings are above the pre-alarm threshold. A pre-alarm condition develops quickly in comparison to a maintenance alert and applies to all detectors. The pre-alarm threshold can be selected from 50% to 99% of alarm threshold.

Alarm verification

CSpy, TSpy and XP95 detectors can be configured for verification mode in which the control panel will reset an active detector and verify the alarm condition before sounding an alarm. Verification can prevent false alarms because two detector readings above the alarm threshold are required before the panel initiates the alarm condition. The alarm verification time is a global setting of 0 (disabled) to 60 seconds, in 10 second increments. See *Table 2-1: Settings not allowed by regulations* for important information.

3.7.2 Input modules

Each input/output (I/O) module can be individually configured for the settings below.

- Input type. The input type can be assigned as one of the types in *Table 3-1: Input types*.
- Description text label. Up to two lines of 20 characters can describe the module.
- Enabled/disabled. A trouble condition exists on the control panel while a module is disabled.
- Groups. The module can be assigned to up to 10 groups.

Table 3-1: Input types

Type	Description
Alarm	Alarm is the normal type of input for automatic smoke detectors, heat detectors, etc. They activate building notification devices as well as the alarm light on annunciators. They can optionally operate relays and output modules in the system.
Manual pull station	Manual pull station inputs operate similar to alarm inputs, but are given higher communication priority so the panel can react faster to a manually activated alarm.
Waterflow	Waterflow inputs supervise water flow detectors. They activate building notification devices as well as the alarm light on annunciators. They can optionally operate relays and output modules in the system. Waterflow inputs can be programmed so that the outputs they activate are silenceable or nonsilenceable.
Supervisory	Supervisory inputs are for items such as shut-off valves and pressure detectors for sprinkler systems. They cannot operate building notification devices, but can optionally operate relays and output modules in the system.

3.7.3 Input/output Modules

Each input/output (I/O) module can be individually configured for the settings below. See *Table 2-1: Settings not allowed by regulations* for important information.

- Input type. The input type can be assigned as one of the types in *Table 3-1: Input types*.
- Description text label. Up to two lines of 20 characters can describe the module.
- Enabled/disabled. A trouble condition exists on the control panel while a module is disabled.
- Silenceable or nonsilenceable output.
- Fire drill. The output can be included or not included when a user performs a fire drill test.
- Schedule. One or none of the four on/off schedules can be applied to the module's output.
- Output delay. The module's output can be included or not included when the system activates the output delay function.
- Groups. The module's input can be assigned to up to 5 groups and the output can be assigned to up to 5 groups.

3.7.4 Sounder output modules

Sounder output modules provide a method of synchronizing alarm sounders. Each sounder output module controls one circuit of alarm sounders. The module appears at its primary unique address but also has a secondary address (112 to 126) that makes it a member of a sounder group. Sounder modules that share the same secondary address (i.e. within a sounder group) are synchronized.

Each sounder output module can be individually configured for the settings below. See *Table 2-1: Settings not allowed by regulations* for important information.

- Description text label. Up to two lines of 20 characters can describe the module.
- Enabled/disabled. A trouble condition exists on the control panel while a module is disabled.
- Silenceable or nonsilenceable output.
- Fire drill. The output can be included or not included when a user performs a fire drill test.
- Schedule. A schedule must not be set for sounder output modules.
- Output delay. The module's output can be included or not included when the system activates the output delay function.
- Groups. The module can be assigned to up to 10 groups.

LCU modules with sounder output modules intended to synchronize are programmable to enable/disable the synchronization feature.

3.8 NAC settings

Each NAC can be individually configured for the following settings:

- Input or output. The input is treated as a point in the system and is activated by a 24VDC voltage. When set as an output, the NAC acts as either a regular NAC or a power supply, depending on the pattern setting.

- Output pattern (see *Table 3-2: NAC output patterns*). The pattern only applies if the NAC is set as an output.
- Description text label. Up to two lines of 20 characters can describe the NAC.
- Enabled/disabled. A trouble condition exists on the control panel while a NAC is disabled.
- Silenceable or nonsilenceable.
- Fire drill. The NAC can be included or not included when a user performs a fire drill test.
- Schedule. One or none of the four on/off schedules can be applied.
- Output delay. The NAC can be included or not included when the system activates the output delay function.

Table 3-2: NAC output patterns

NAC Pattern	Description
Steady	The NAC is activated by an alarm condition. The output is continuous 24VDC.
Temporal coded	The NAC is activated by an alarm condition. The output pattern is American National Standards Institute's ANSI S3.41 audible emergency evacuation signal pattern: on, off, on, off, on, off, pause, repeat.
March time coded	The NAC is activated by an alarm condition. The output pattern is a simple repeating on, off, on, off.
Power supply, resettable	The NAC outputs 24VDC that may be used as a power supply. The output is 0V for approximately 20 to 30 seconds during panel reset
Power supply, non-resettable	The NAC outputs 24VDC that may be used as a power supply. The output remains 24V during a panel reset.
Gentex 1 synchronized	The NAC is activated by an alarm condition. The NAC provides a synchronizing pulse for Gentex Commander 3 and Command 4 series.
Gentex 2 synchronized	The NAC is activated by an alarm condition. The NAC provides a synchronizing pulse for Gentex Commander 1.

3.9 Accessory devices

3.9.1 Remote annunciators

The ANN remote annunciators mimic the keypad on the main panel. However, the reset button on each can be disabled to prevent unauthorized resetting of the system.

LDV graphic annunciators provide programmable LED or incandescent lamp annunciation. The LDV's outputs are programmed via the panel's zone settings. All LDV's on the system use the same configuration for their display.

3.9.2 Relay cards

RC modules can be connected to the MBC/MBCLC and to CM modules. The number of relay cards at each location is programmed into the panel.

SRM modules have the settings below.

- Description text label. Up to two lines of 20 characters can describe the module.
- Enabled/disabled. A trouble condition exists on the control panel while a module is disabled.
- Silenceable or nonsilenceable output.
- Fire drill. The output can be included or not included when a user performs a fire drill test.
- Schedule. One or none of the four schedules can be applied to the module's output.
- Output delay. The module's output can be included or not included when the system activates the output delay function.
- Groups. The module can be assigned to up to 10 groups.

3.9.3 DACT

Enable the T-UDACT to allow it to make outgoing calls to a central station receiver. The UDACT may be disabled to keep it from making calls, but a trouble condition exists on the control panel while it is disabled. The primary phone number is used for dialing on the UDACT's primary line and the secondary phone number is used for dialing on the secondary line. The same account number is used for both lines. Set the test time to the hour and minute that the UDACT should attempt to make its daily line test report. The UDACT reports in SIA Level 1 or Ademco Contact ID format. Refer to the DACT manual for compatible receivers.

4 Programming from the annunciator

4.1 Accessing the menu system

To access the menu system, press the **PROG** key and enter the access code for the desired level. The default code for Level 1 (maintenance functions) is 11111111. The default code for Level 2 (programming functions) is 22222222.

The panel must be in a normal operating condition before the menu system can be accessed. If the panel has off-normal events, press **RESET** and the panel will enter a normal operating condition for a few seconds after it restarts.

4.2 Exiting the menu system

The changes you make are saved after you press **ENTER** on each screen. There is no extra step to save changes before exiting the menu system. To leave the menu system at any time, press **RESET**.

4.3 About the numbering used

Each menu is given a number based on how to navigate to it starting from the main menu:

- A number means press the number to select an option.
- A letter indicates which "more" screen the option is chosen from (A is the first screen, press **▼** to get to B, the second screen).
- Levels are separated by periods.

So to navigate to Menu 1.2B from normal standby press **PROG**, enter the passcode for Level 2, press 1 for child menu 1, press 2 for child menu 2, then press **▼** to get to the second screen of options.

4.4 Menu navigation

Display

The display shows available menu options.

Available keys

- 0 to 9** go to child menu corresponding to number
← go back to parent menu (on the **SILENCE** key)
RESET exit the menu system

```
Program Menu
1. Clock
2. System Options
3. Network Settings
4. Panel Settings
5. Output Settings
6. PC Communication
7. Factory Default
```

4.5 Assign a setting

Display

When a screen shows some values to change, highlight the value you wish to change and then change it.

Available keys

- ◆ / ▲**: highlight the value you wish to change
◆ / ▼: change the highlighted value
← go back to parent menu without saving changes
ENTER go back to parent menu and save changes
RESET exit the menu system without saving changes

```
DACT Option
DACT: Y
```

4.6 Text and number entry

Entering text

Several places in the menu system ask for text to be entered.

Use alphanumeric keys to enter text. Press the key repeatedly until the desired letter appears. Use ◀ or ▶ keys to move the cursor.

Example: To select the letter C, press the **1** (A B C) key three times.

Available keys

(for numerical entries)

0 - 9 enter a number

◀ / ▶ move the cursor

(for alphanumeric entries)

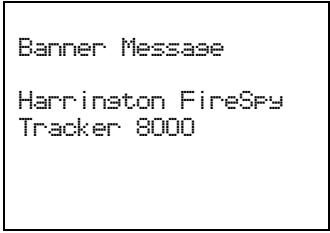
0 - 9 cycles through the available characters for the key. Does not advance cursor.

◀ / ▶ move the cursor

← go back to parent menu without saving changes

ENTER go back to parent menu and save changes

RESET exit the menu system without saving changes



Banner Message
Harrington FireSpy
Tracker 8000

5 Programming menu

5.1 Level 2 main menu

This is the screen that is displayed after entering the level 2 passcode (22222222 by default). See 4.1 *Accessing the menu system*

```
Main Menu
1. Program
2. Status
```

5.2 Menu 1: Programming menu

Available keys

- 0 to 9 go to child menu corresponding to number
- ◀ / ▶ go to first or second screen of options
- ← go back to parent menu
- RESET exit the menu system

A

```
Program Menu
1. Clock
2. System Options
3. Network Settings
4. Input Settings
5. Output Settings
6. Point Settings
↓
```

B

```
Program Menu ↑
7. Group Settings
8. PC Communication
9. Factory Default
```

5.3 Menu 1.1: Clock

The date format is yyyy.mm.dd.

Available keys

- ◀ / ▶ highlight the value you wish to change
- ◆ / ◇ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
Set Clock
Date: 2000.01.01
Time: 00:00
```

5.4 Menu 1.2: System Options

Available keys

- 0 to 9** go to child menu corresponding to number
- ◀ / ▶** go to first or second screen of options
- ←** go back to parent menu
- RESET** exit the menu system

```
Set System Options
1. Banner Message
2. Access Codes
3. Options & Timings
4. Day/Night Settings
5. On/Off Settings
6. Holidays
7. Peripheral Config
```

5.5 Menu 1.2.1: Banner Message

Available keys

- 0 to 9** change the highlighted character (press the same key multiple times to select a different character on the key)
- ◀ / ▶** move the cursor
- ←** go back to parent menu without saving changes
- ENTER** go back to parent menu and save changes
- RESET** exit the menu system without saving changes

```
Banner Message
Harrington FireSpy
Tracker 8000
```

5.6 Menu 1.2.2: Change Access Codes

To highlight the level 2 passcode, move the cursor past the end of the line for level 1 passcode.

Available keys

- 0 to 9** change the highlighted digit
- ◀ / ▶** move the cursor
- ←** go back to parent menu without saving changes
- ENTER** go back to parent menu and save changes
- RESET** exit the menu system without saving changes

```
Change Access Codes
Level 1: 11111111
Level 2: 22222222
Press <Enter>
```

5.7 Menu 1.2.3: Options and Timers

To get to the second screen, press ☐ until the cursor goes past the bottom line of the first screen.

Available keys

- ◀ / ▶ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

A

```
Options & Timers ↓
Latch Troubles: N
Trouble Reminder: N
Auto Silence: 0min
Sil. Inhibit: 0sec
Alarm Verify: 0sec
Output Delay: 0sec
Hour Format: 24hours
```

B

```
Options and Timers↑
AC Fail Delay: 60 min
```

5.8 Menu 1.2.4: Day/Night Settings

Up to four day/night schedules can be saved. To access a different schedule, move the cursor to the schedule number, then press ◀ or ▶.

Available keys

- ◀ / ▶ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
Day/Night Sch #1
Days: SMTWTFS
Day Start: 00:00
Sensitivity: Low
Night Start: 00:00
Sensitivity Low
```

5.9 Menu 1.2.5: On/Off Settings

Up to four on/off schedules can be saved. To access a different schedule, move the cursor to the schedule number, then press ◀ or ▶.

Available keys

- ◀ / ▶ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
On/Off Sch #1
On=00:00 Off=00:00
On=00:00 Off=00:00
On=00:00 Off=00:00
```

5.10 Menu 1.2.6: Holidays

The format of the holiday date is mm/dd.

Available keys

- ◀ / ▶ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

A

```
Set Holidays
01. 00/00 02. 00/00
03. 00/00 04. 00/00
05. 00/00 06. 00/00
07. 00/00 08. 00/00
09. 00/00 10. 00/00
11. 00/00 12. 00/00
13. 00/00 14. 00/00
```

B

```
Set Holidays
15. 00/00 16. 00/00
17. 00/00 18. 00/00
19. 00/00 20. 00/00
```

5.11 Menu 1.2.7: Peripheral configuration

Available keys

- ◀ / ▶ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
Peripheral Config
1. RS232 Port
2. UDACT
```

5.12 Menu 1.2.7.1: Serial port configuration

Options are: Printer, Direct, Modem, Network, Disabled

Available keys

- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER (if Y) go to DACT settings screen
- ENTER (if N) go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
Serial Port Config
Mode: PC Pros/Remote
Dial Number:

Modem Init Strings:
```

5.13 Menu 1.2.7.2: DACT

After changing the N to a Y, the DACT options screen is displayed.

Available keys

- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER (if Y) go to DACT settings screen
- ENTER (if N) go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
DACT Option
DACT: Y
```


5.14 Menu 1.2.7.2: DACT settings

This screen is not displayed unless the DACT option is set (see previous screen).

Available keys

- 0 to 9 change the highlighted digit
- ◀ / ▶ highlight the value you wish to change
- ⬅ / ➡ change the highlighted value
- ⬅ go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
UDACT Parameters
Account Number:
1234
Primary Call #:
9,18001234567
Alternate Call #:
9,18001234567
Test Time: 13:00
```

5.15 Menu 1.3: Network modules

Available keys

- 0 to 9: go to child menu corresponding to number
- ⬅ go back to parent menu
- RESET exit the menu system

```
RS485 Network
1. Find All Modules
2. List All Modules
3. Config Remote PDC
```

5.16 Menu 1.3.1: Find network modules

This screen will be displayed for 2 or more seconds while the system scans for network devices. When done, the previous screen will be displayed.

Available keys

(none)

```
Scanning . . .
```

5.17 Menu 1.3.2: List network modules

This information is for viewing only; it cannot be edited.

The type, address, enabled/disabled, and version is shown for each module. If the network scan did not find a device at the address shown, this screen will say Device Disabled, Device Not Detected.

Available keys

- ◀ / ▶ scroll through list of devices
- ⬅ go back to parent menu
- ENTER go back to parent menu
- RESET exit the menu system

```
MCC Module #01
Device Enabled
Version: 03.00
```

5.18 Menu 1.3.3: Remote reset enable/disable

This screen allows for enabling or disabling the RESET function of remote annunciators.

Available keys

- ◀ / ▶ scroll through list of devices
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
Remote RESET Option
PDC Module #02
Reset Enable: N
```

5.19 Menu 1.4: Input settings

Available keys

- 0 to 9: go to child menu corresponding to number
- ← go back to parent menu
- RESET exit the menu system

```
Input Settings
1. Options
2. Sensitivity
```

5.20 Menu 1.4.1: Set input options

Available keys

- ◀ / ▶ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
Set Input Options
Test Time : 00:00
Disc LEDs Flash: N
```

5.21 Menu 1.4.2: Set sensitivity

Available keys

- 0 to 9 go to child menu corresponding to number
- ← go back to parent menu
- RESET exit the menu system

```
Set Sensitivity
1. Ion Detector
2. Photo Detector
3. Multi Detector
4. Heat Detector
```

5.22 Menu 1.4.2.x: Detector sensitivity

The screen for the ion detector is shown. The screens for photo, multi, and heat are similar.

Available keys

- 0 to 9** go change the highlighted digit
- ◀ / ▶** highlight the value you wish to change
- ◀ / ▶** change the highlighted value
- ←** go back to parent menu without saving changes
- ENTER** go back to parent menu and save changes
- RESET** exit the menu system without saving changes

```
Ion
Low: 0060
Medium: 0060
High: 0060
Fault: 0008
Pre-Alarm: 0048
```

5.23 Menu 1.5: Output settings

Available keys

- 0 to 9** go to child menu corresponding to number
- ←** go back to parent menu
- RESET** exit the menu system

```
Output Settings
1. Define NACs
2. Configure NACs
3. Config PCs on MCC
4. Config PCs on CMs
```

5.24 Menu 1.5.1: Define NACs Input/Output

Available keys

- ◀ / ▶** highlight the value you wish to change
- ◀ / ▶** change the highlighted value
- ←** go back to parent menu without saving changes
- ENTER** go back to parent menu and save changes
- RESET** exit the menu system without saving changes

```
NACs Definition
NAC1: Output
NAC2: Output
NAC3: Output
NAC4: Output
```

5.25 Menu 1.5.2: Configure NAC patterns

Each NAC can be set as follows:

NAC-ST	NAC steady output
NAC-TC	NAC temporal coding
NAC-MT	NAC march time
PS-RET	Power supply, resettable
PS-CON	Power supply, non-resettable (continuous)
GNTX-1	Newer Gentex synch protocol
GNTX-2	Older Gentex synch protocol

```
Configure NACs
1. NAC-ST 2. NAC-ST
3. NAC-ST 4. NAC-ST
```

Available keys

- ◀ / ▶** highlight the value you wish to change
- ◀ / ▶** change the highlighted value
- ←** go back to parent menu without saving changes
- ENTER** go back to parent menu and save changes
- RESET** exit the menu system without saving changes

5.26 Menu 1.5.3: RCs on MCC

Change the value to match the number of RC modules attached to the MCC (up to 5).

Available keys

- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
RC Attached to MCC
No. of RCs: 0
```

5.27 Menu 1.5.3: RCs on CMs

Change the value to match the number of RC modules attached to each CM module (up to 5 each).

Available keys

- ◀ / ▶ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
RC Attached to CMs
#00: 0 #01: 0 #02: 0
#03: 0 #04: 0 #05: 0
```

5.28 Menu 1.6: Point settings

Available keys

- 0 to 9 go to child menu corresponding to number
- ← go back to parent menu
- RESET exit the menu system without saving changes

```
Point Settings
1.Scan Points
2.Browse Points
3.Discovery Features
4.Sync Sounder
5.Manual Scan Point
6.Single Loop Scan
7.Maintenance Value
```

5.29 Menu 1.6.1: Scan points

The panel scans all points on all LCU modules installed on the system. The scan may take a few minutes.

Available keys

(none)

```
Auto-Scan Points
Point: 01:0001
Type:
  Unknown Device
```

5.30 Menu 1.6.1: Scan points: Change found

If the scan finds that a device does not match the previous address, it will ask whether you want to allow the change in the configuration. The scan will detect the following changes: device added, device removed, multiple devices at the same address.

Available keys

- 1** Apply the change to this device to the configuration
- 2** Do not change the configuration for this device
- 3** Apply changes found on all devices to the configuration
- 4** Do not change the configuration for any devices
- RESET** exit the menu system

```
Device Added
1.Okay 3.Okay to All
2.No 4.No to All
```

5.31 Menu 1.6.2: Browse points: Browse mode

To browse through the points found (the set of two digits are the circuit number and the set of four digits are the point number)...

Available keys (while entering an address)

- 0 to 9** change the highlighted digit
- ◀ / ▶** move the cursor

Available keys (before or after entering an address)

- 0 to 9** to begin entering an address at the cursor
- ◀ / ▶** move the cursor
- ◆ / ◆** browse to the next/previous point

Available keys (for both of the above)

- ←** go back to parent menu
- ENTER** edit the currently displayed point
- RESET** exit the menu system

```
Point: 01:0001 (E)
```

```
Discovery Ion
Mode: Alarm
Groups: 0201 0000
0000 0000 0000 0000
0000 0000 0000 0000
```

5.32 Menu 1.6.2: Browse points: Edit mode

The following items can be changed:

Enable/disable: (E) or (D)

Description text: up to two lines of description

Modes: Alarm or Supervisory

Groups: Up to ten groups. Set to 0000 to remove from a group.

Sensitivity: select a schedule number

Alarm verification time: Y or N

LED Zone

Available keys

- ◆ / ◆** highlight the value you wish to change
- ◀ / ▶** change the highlighted value
- ←** go back to parent menu without saving changes
- ENTER** go back to browse mode and save changes
- RESET** exit the menu system without saving changes

A

```
Point: 01:0001 (E)
```

```
Discovery Ion
Mode: Alarm
Groups: 0201 0000
0000 0000 0000 0000
0000 0000 0000 0000
```

B

```
Zone: 0000
```

5.33 Menu 1.6.3: Discovery features: Select point

Available keys

- ◀ / ▶ change the address
- ← go back to parent menu without saving changes
- ENTER edit the displayed address
- RESET exit the menu system

```
Discovery address:
Point: 01:0001

Press <ENTER>
```

5.34 Menu 1.6.3: Discovery features: Viewing point

Available keys

- 0 to 9 go to child menu corresponding to number
- ← go back to select a different point
- RESET exit the menu system

```
Discovery commands
0. Type code
1. Manufacture Date
2. Approval Data
3. Drift Data
4. Rapid Update
5. Sensitivity Mode
6. Discovery Test
```

5.35 Menu 1.6.3: Discovery features: Viewing point: Type

Available keys

- ← go back to parent menu
- RESET exit the menu system

```
Point Type Result
Point: 01:0001
Type:
Discovery Optical
```

5.36 Menu 1.6.3: Discovery features: Viewing point: Manufacture date

Available keys

- ← go back to parent menu
- RESET exit the menu system

```
Manufacture Result
Point: 01:0001
Manufacture Date
    July 2004
```

5.37 Menu 1.6.3: Discovery features: Viewing point: Approval Data

Available keys

← go back to parent menu
RESET exit the menu system

```
Approval Result
Point: 01:0001
```

5.38 Menu 1.6.3: Discovery features: Viewing point: Drift Data

Drift data indicates the level of drift compensation used. A level of 16 represents no compensation. The flag is set to 1 when the detector has reached its limit of compensation (when drift has reached 3 or 32).

Available keys

← go back to parent menu
RESET exit the menu system

```
Drift Result
Point: 01:0001

Drift 09 Flag 0
```

5.39 Menu 1.6.3: Discovery features: Viewing point: Rapid update

This commands the point to initiate rapid compensation. The device samples its environment then begins operating based on the assumption that the environment is normal. This command is typically done after servicing the device.

Available keys

← go back to parent menu
RESET exit the menu system

```
Updating . . .
```

```
Command
Successful
Press <Silence>
```

5.40 Menu 1.6.3: Discovery features: Viewing point: Sensitivity mode

Normal sensitivity is 03. To increase sensitivity, set to 01 or 02. To decrease sensitivity, set to 04 or 05.

Use the LED option to enable (ON) or disable (OFF) flashing of the device's LED

Available keys

← go back to parent menu
RESET exit the menu system

```
Sensitivity mode:
Sensitivity: 03
Flashing LED: OFF
Press <ENTER>
```

5.41 Menu 1.6.3: Discovery features: Viewing point: Discovery test

Available keys

- ← go back to parent menu
- RESET exit the menu system

```
Test Result:
Successful

Press <SILENCE>
```

5.42 Menu 1.6.4: Sync sounder

Available keys

- ◆ / ◆ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
Sync Sounder Option
LC Module # 0
Sync Sounder: N
```

5.43 Menu 1.6.5: Manual scan point

Enter the address of the device to scan. The resulting screens are similar to the results of 5.29 *Menu 1.6.1: Scan points*

Available keys

- ◆ / ◆ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system

```
Manual Scan address:
Point: 01:0001

Press <ENTER>
```

5.44 Menu 1.6.6: Manual scan loop

Enter the number of the loop to scan. The resulting screens are similar to the results of 5.29 *Menu 1.6.1: Scan points*

Available keys

- ◆ / ◆ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system

```
Loop Scan address:
Loop: 01

Press <ENTER>
```


5.45 Menu 1.6.7: Maintenance value

This information is for viewing only; it cannot be edited.

Available keys

- ◀ / ▶ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER go back to parent menu and save changes
- RESET exit the menu system without saving changes

```
Point: 01:0001 (E)
Photo Ckt01 Dev0001

Photo
Analog Value: 23
```

5.46 Menu 1.7: Group and zone settings

Available keys

- 0 to 9 go to child menu corresponding to number
- ◀ / ▶ go to first or second screen of options
- ← go back to parent menu
- RESET exit the menu system

```
Group & Zone Settings

1. Groups
2. Group Tables
3. Zone Settings
```

5.47 Menu 1.7.1: Group settings: Browse mode

To browse through the groups...

Available keys (while entering an address)

- 0 to 9 change the highlighted digit
- ◀ / ▶ move the cursor

Available keys (before or after entering an address)

- 0 to 9 to begin entering an address at the cursor
- ◀ / ▶ move the cursor
- ◀ / ▶ browse to the next/previous group

Available keys (for both of the above)

- ← go back to parent menu
- ENTER edit the currently displayed group
- RESET exit the menu system

```
Group #001 (E)
GROUP NUMBER 0001
LED[A]:00 LED[T]: 00
Alarm Count: 1
Output Delay:
          00000 seconds
Suppr./Ctrl. Action
Output follows Input
```

5.48 Menu 1.7.1: Group settings: Edit mode

The following items can be changed:

Enable/disable: (E) or (D)

Description text: one line of text

Alarm LED address

Trouble LED address

Action: Select one of the following:

- Output follows Input
- Latch Output On
- Latch Output Off
- Toggle Output On/Off

```
Group #001      (E)
GROUP NUMBER 0001
LED[A]:00 LED[T]: 00
Alarm Count: 1
Output Delay:
          00000 seconds
Suppr./Ctrl. Action
Output follows Input
```

Available keys

0 to 9 to begin entering an address at the cursor

◀ / ▶ highlight the value you wish to change

◀ / ▶ change the highlighted value

← go back to parent menu without saving changes

ENTER edit the currently displayed point

RESET exit the menu system without saving changes

5.49 Menu 1.7.2: Group table settings: Browse mode

To browse through the group tables...

Available keys (while entering an address)

0 to 9 change the highlighted digit

◀ / ▶ move the cursor

Available keys (before or after entering an address)

0 to 9 to begin entering an address at the cursor

◀ / ▶ move the cursor

◀ / ▶ browse to the next/previous group table

Available keys (for both of the above)

← go back to parent menu

ENTER edit the currently displayed group table

RESET exit the menu system

```
Group Table #001 (D)
GROUP TABLE #0001
000 000 000 000
000 000 000 000
000 000 000 000
000 000 000 000
000 000 000 000
Link to GT#:
```

5.50 Menu 1.7.2: Group table settings: Edit mode

The following items can be changed:

Enable/disable: (E) or (D)

Group in the table: (group number)

Available keys

0 to 9 to begin entering a group number at the cursor

◀ / ▶ highlight the value you wish to change

◀ / ▶ change the highlighted value

← go back to parent menu without saving changes

ENTER edit the currently displayed point

RESET exit the menu system without saving changes

```
Group Table #001 (D)
GROUP TABLE #0001
000 000 000 000
000 000 000 000
000 000 000 000
000 000 000 000
000 000 000 000
Link to GT#:
```

5.51 Menu 1.7.3: Zone settings: Browse mode

To browse through the zones...

Available keys (while entering an address)

- 0 to 9 change the highlighted digit
- ◀ / ▶ move the cursor

Available keys (before or after entering an address)

- 0 to 9 to begin entering an address at the cursor
- ◀ / ▶ move the cursor
- ◆ / ◆ browse to the next/previous point

Available keys (for both of the above)

- ← go back to parent menu
- ENTER edit the currently displayed point
- RESET exit the menu system

```
Zone #001    (E)

Alarm LED#   000
Supr LED#    000
Trouble LED# 000
```

5.52 Menu 1.7.2: Zone settings: Edit mode

The following items can be changed:

- Enable/disable: (E) or (D)
- Description text: one line of text
- Alarm LED address
- Supervisory alarm LED address
- Trouble LED address

Available keys

- 0 to 9 to begin entering an address at the cursor
- ◆ / ◆ highlight the value you wish to change
- ◀ / ▶ change the highlighted value
- ← go back to parent menu without saving changes
- ENTER edit the currently displayed point
- RESET exit the menu system without saving changes

```
Zone #001    (E)

Alarm LED#   000
Supr LED#    000
Trouble LED# 000
```

5.53 Menu 1.8: PC communication mode

Connect a PC to the communication port and set the communication mode to Direct (see **Error! Reference source not found. Error! Reference source not found.**) before entering the PC communication mode at this screen.

Available keys

- RESET exit the menu system

```
PC Connected. Press
<ENTER> to Multitask
<SILENCE> to Exit
<RESET> to Restart
```

5.54 Menu 1.9: Factory default

Available keys

- ← go back to parent menu
- RESET set all settings to factory default values and reset the panel

```
Press <RESET> to
Set Settings to
Factory Defaults
```

5.55 Menu 2: Status

Available keys

- 0 to 9 go to child menu corresponding to number
- ← go back to parent menu
- RESET exit the menu system

```
System Status
1. Event History
2. Device Status
```

5.56 Menu 2.1: Event history

This screen contains the following items.

- Event code
- Event number
- Circuit and point number
- Date and time
- Description of event

Available keys

- ↻ / ⏮ go to next/previous event
- ← go back to parent menu
- RESET exit the menu system

```
NR:0001      01:0001
10/07 Wed 08:04:59
Dev Normal

Photo Ckt01 Dev0001
```

5.57 Menu 2.2: Device status

Available keys

- ↻ / ⏮ go to next/previous event
- ← go back to parent menu
- RESET exit the menu system

```
MCC Module #01

Device Enabled
Version: 03.00
```


Appendix A. Default settings

Clock 24 hour format
 Date 2000.01.01
 Time 00:00

Banner message blank
 Access code, level 1: 11111111
 Access code, level 2: 22222222

Latch troubles N (non-latching)
 Trouble reminder N (disabled)
 Auto silence 0 min (disabled)
 Silence Inhibit 0 sec (disabled)
 Alarm verify 0 sec (disabled)
 Output delay 0 sec (disabled)
 Hour format 24hours

Day/night schedules

Days SMTWTFS
 Day start 0:00 (midnight)
 Day sensitivity Low
 Night start 0:00 (midnight)
 Night sensitivity Low

On/off schedules

(All settings) 00:00

Holidays

(none set)

Peripheral

RS232 port. PC Prog/Remote
 Dial number blank
 Init string blank (ATZ recommended if using modem)

DACT

DACT enabled N (no DACT or disabled)
 Phone numbers blank
 Account blank
 Test time blank

Network devices (after being added via scan)

Enable/disable Enabled
 Sync module (LCs) N (no synchronization)

Input settings

Test time 00:00
 LEDs flash N (Discovery only)

Sensitivity (Ion)

Low 0060
 Medium 0060
 High 0060
 Fault 0008
 Pre-alarm 0048

Sensitivity (photo)

Low 0062
 Medium 0055
 High 0052
 Fault 0008
 Pre-alarm 0048

Sensitivity (multisensor)

Low 0055
 Medium 0055
 High 0055
 Fault 0008
 Pre-alarm 0048

Sensitivity (heat)

Low 0090
 Medium 0071
 High 0055
 Fault 0008
 Pre-alarm 0048

NACs (all)

Input/output Output
 Type, pattern NAC, steady

SLC devices (after being added via scan)

Mode Alarm
 Groups 0201 (all others 0000)
 Sensitivity Sch #1
 Alarm verification N
 LED zone 0000

Discovery features (if applicable to device)

Sensitivity 03
 Flash LED OFF
 (all other features are not set by the panel)

Sync sounder

(all LC modules) N

Groups

Enable/disable enabled
 Description blank
 LED[A] 00
 LED[T] 00
 Alarm count 1

Zones

Description blank
 LED[A] 0000
 LED[S] 0000
 LED[T] 0000



Because Lives, Property and Businesses Aren't Fireproof.

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