

TFX-500M & TFX-800M Fire Control System

Operator's
Manual

AUTOCALL TFX-500M and TFX-800M Fire Control System Operator's Manual



835 Sharon Drive
Westlake, Ohio 44145

A **tyco** INTERNATIONAL LTD. COMPANY

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This manual is part of our continuing effort to provide user-oriented technical information concerning fire protection, security, and access control systems.

AUTOCALL systems are designed to meet your most demanding and unusual requirements. Each system installation becomes a unique, custom application. Accordingly, this manual is intended only as a general guide to the operation of the AUTOCALL TFX-500M and TFX-800M family of fire protection systems and is subject to change without notice.

The information contained in this manual may not cover all details or variations in equipment, nor provide for every possible contingency to be met in connection with the operation of the equipment. The information this manual is subject to change without notice.

Important:

The emergency procedures described in this manual are guidelines only. In all emergency situations, follow procedures defined by your facility, local codes, and authority having jurisdiction.

For further information contact:

AUTOCALL TFX Products
835 Sharon Drive
Westlake, Ohio 44145
Telephone: (440) 871-9900
Facsimile: (440) 871-8320

WARNING

This equipment generates and can radiate radio frequency energy and if not installed and used in accordance with the instructions this manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of the Federal Communications Commission (FCC) Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Revision History

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Preface

About This Manual...

This manual is intended for use by those responsible for operating the Autocall TFX-500M and TFX-800M family of fire control systems. The manual provides general instructions for operating an Autocall TFX-500M or TFX-800M fire control panel.

Where to Look for More Information About ¹/₄

TFX-500/800 System Installation

AUTOCALL TFX-500M and TFX-800M Operator's Manual and Installation Guide, Publication Number 850515, contains installation information for each of the AUTOCALL TFX-500M and TFX-800M system components.

Ancillary Devices

Each device is packaged with its own technical guide and installation instructions.

Programming the Autocall TFX-500M and TFX-800M

AUTOCALL TFX-500 and TFX-800 CONSYS r Programming Guide, (Publication Number 850463). Programming the TFX Fire Control System via a personal computer³/₄ only authorized and trained personnel may program the Autocall TFX fire control system.

Ordering System Components, Spare and Replacement Parts

Contact your local Fire Protection Systems representative or contact Technical Services Department, 835 Sharon Drive, Westlake, Ohio 44145. Phone (440) 871-9900.

NFPA Codes and Standards

NFPA (National Fire Protection Association) publishes codes and standards concerning all phases of fire protection. Some publications that directly concern automatic fire detection and control systems include (but are not limited to): NFPA 70, National Electrical Code; NFPA 72, Installation, Maintenance and Use of Protective Signaling Systems; NFPA 101, Life Safety Code.

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Section 1.

Quick Response

Read this section to identify and respond to alarm and trouble conditions. The section also describes how to accept (acknowledge) alarms, silence and reset the panel.

Silencing, resetting, and operating the AUTOCALL TFX-500M and AUTOCALL TFX-800M fire alarm system requires the use of the special key. Make sure you have one available.

Only authorized personnel may reset a fire control panel in alarm condition.

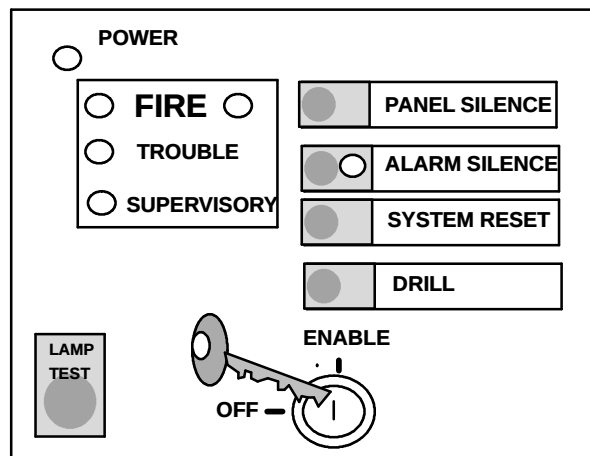
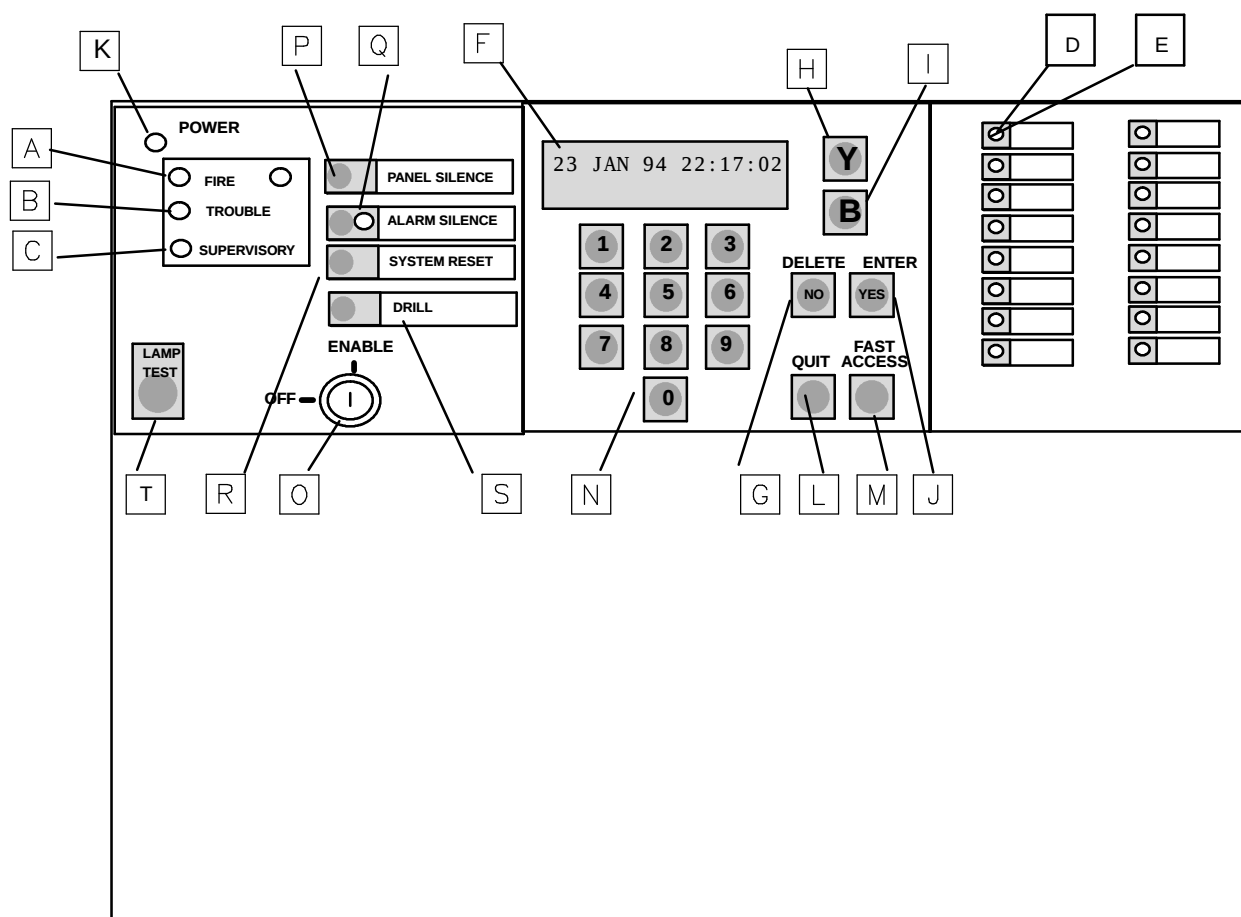


Figure 1-1 AUTOCALL TFX-500M/800M Keyswitch Operation.

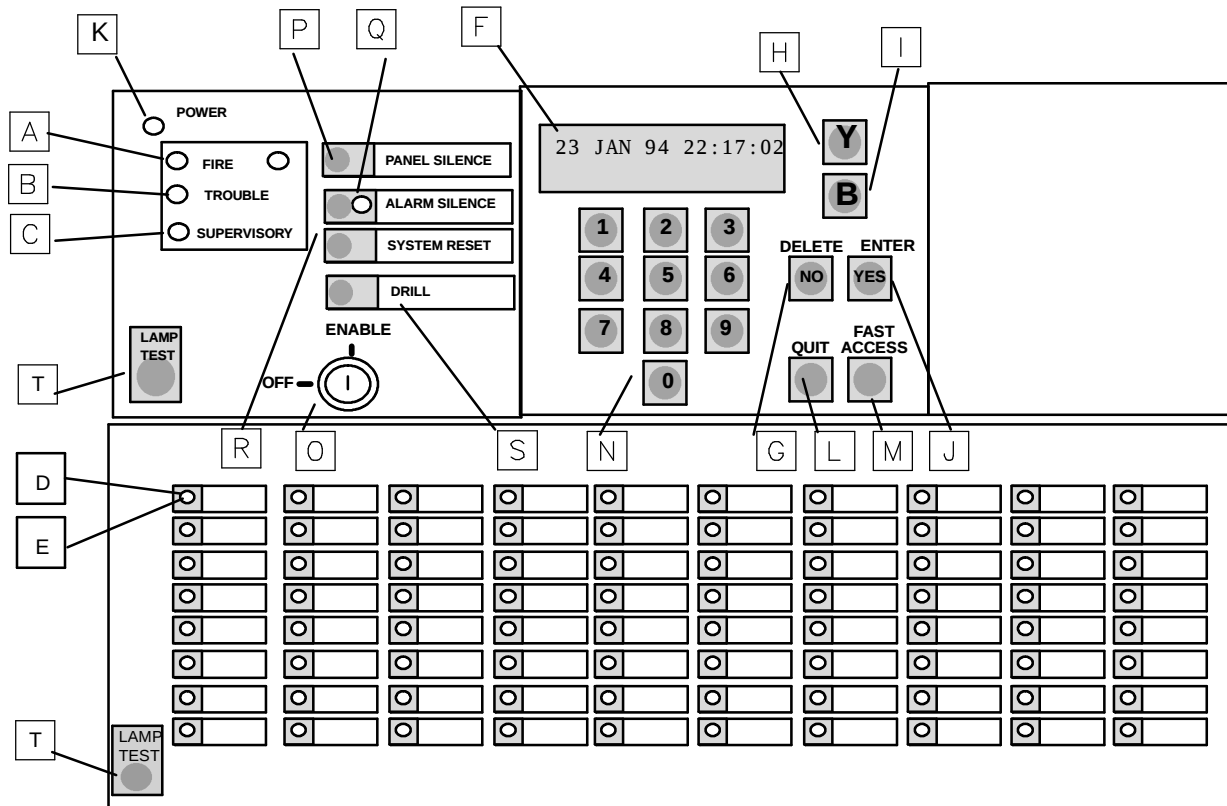
TFX-500M Fire Control Panel (Typical)



- | | |
|-----------------------------|-------------------------------|
| A. FIRE ALARM LED--red | K. POWER LED--green |
| B. TROUBLE LED--yellow | L. QUIT touch-button |
| C. SUPERVISORY LED--yellow | M. FAST ACCESS touch-button |
| D. ZONE ALARM LED--red | N. NUMERIC touch-pad |
| E. ZONE TROUBLE LED--yellow | O. KEYSWITCH |
| F. ALPHANUMERIC DISPLAY | P. PANEL SILENCE touch-button |
| G. NO/DELETE touch-button | Q. ALARM SILENCE touch-button |
| H. SCROLL UP touch-button | R. SYSTEM RESET touch-button |
| I. SCROLL DOWN touch-button | S. DRILL touch-button |
| J. YES/ENTER touch-button | T. LAMP TEST |

Figure 1-2 AUTOCALL TFX-500M Fire Control Panel.

TFX-800M



- | | |
|-----------------------------|-------------------------------|
| A. FIRE ALARM LED--red | K. POWER LED--green |
| B. TROUBLE LED--yellow | L. QUIT touch-button |
| C. SUPERVISORY LED--yellow | M. FAST ACCESS touch-button |
| D. ZONE ALARM LED--red | N. NUMERIC touch-pad |
| E. ZONE TROUBLE LED--yellow | O. KEYSWITCH |
| F. ALPHANUMERIC DISPLAY | P. PANEL SILENCE touch-button |
| G. NO/DELETE touch-button | Q. ALARM SILENCE touch-button |
| H. SCROLL UP touch-button | R. SYSTEM RESET touch-button |
| I. SCROLL DOWN touch-button | S. DRILL touch-button |
| J. YES/ENTER touch-button | T. LAMP TEST |

Figure 1-3 AUTOCALL TFX-800M Fire Control Panels.

1.1. Quick Response— Fire Alarms

Your company or facility should have fire response guidelines. In case of a FIRE emergency, follow those procedures. Here is what you will observe at the AUTOCALL TFX-500M/800M Fire Control Panel in case of a FIRE alarm.

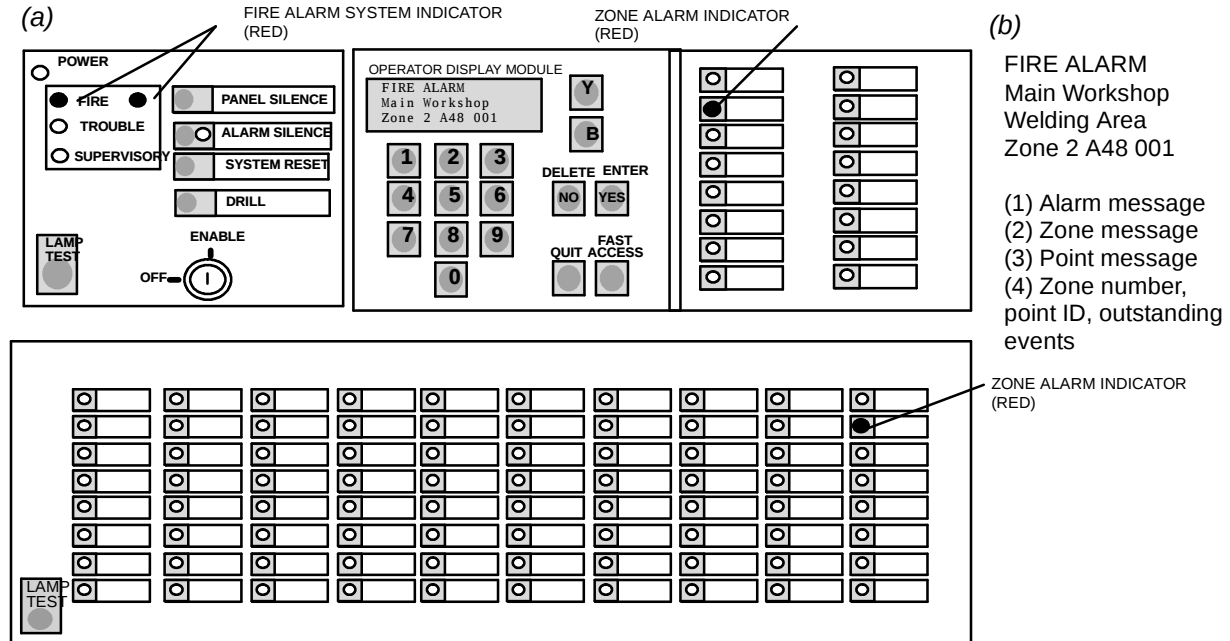


Figure 1-4 (a) FIRE and Zone Alarm Indicators, (b) display FIRE ALARM message.

What You do	What happens
Look at the AUTOCALL TFX-500M/800M control panels to see Alarms. Listen for Alarm signals.	- Two red FIRE ALARM LEDs light. - Red ZONE ALARM LED(s) flash. - Buzzer sounds. - Alarm bells, horns, etc. sound. - Display says FIRE ALARM on first line.
Read the display to determine where the alarm originated.	Display shows zone and point identification messages. See Figure above.
Find the location and cause of the alarm. Follow your building and company procedures.	Alarm bells/horns, lights, buzzers, and displays continue.
Respond according to your facility's emergency response procedure.	Alarm bells/horns, lights, buzzers, and displays continue.
ACCEPT the alarms (See Section 1.4, page 7.)	This provides a list of alarms that have been activated.
After cause has been found, response made, and alarms accepted, SILENCE the alarms. (See Section 1.5, page 8)	(See Section 1.5, page 8.)
RESET the system alarms. (See Section 1.6, page 9.)	(See Section 1.6, page 9.)
WARNING: Do not reset the system until all alarms have been investigated and accepted.	

1.2. Quick Response– Supervisory

A SUPERVISORY condition is indicated when there is a malfunctioning device within the fire suppression system, such as a sprinkler valve. It is important to respond immediately, because the system may be unable to respond to a fire.

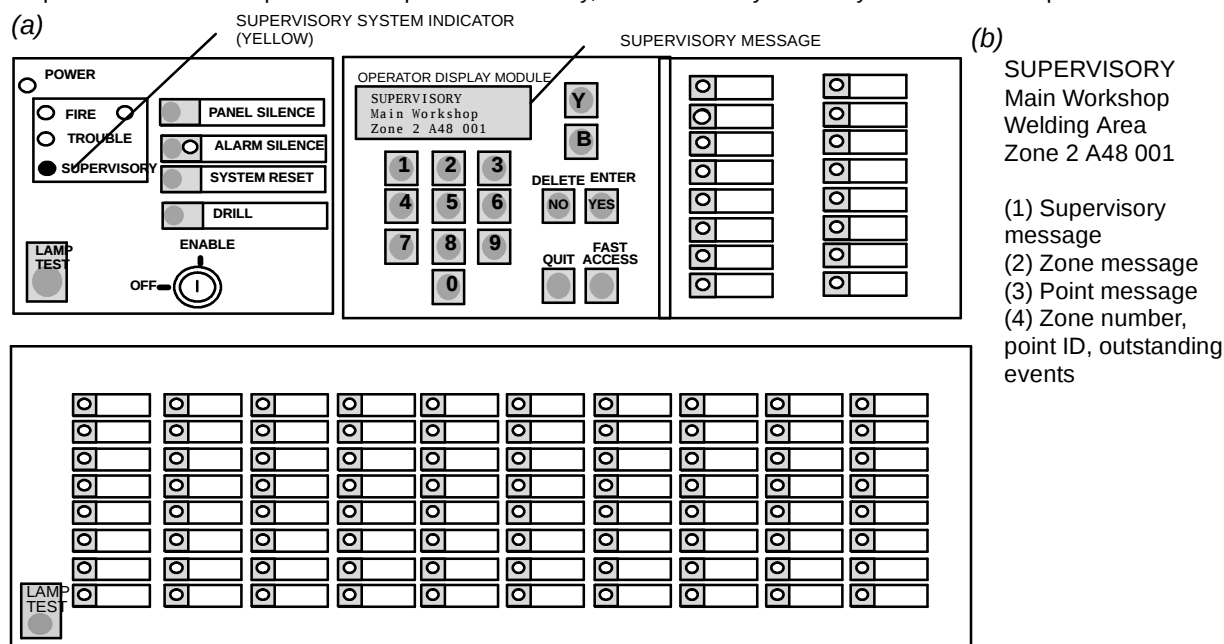


Figure 1–5 (a) SUPERVISORY Indicators, (b) display SUPERVISORY message.

What You do	What happens
Look at the AUTOCALL TFX-500M/800M control panels to see SUPERVISORY lights and messages. Listen for SUPERVISORY signals.	1 Yellow SUPERVISORY LED light. 2 Buzzer sounds a pulsing tone. 3 Display gives SUPERVISORY message.
Read the display to determine where the supervisory condition originated.	Display shows zone and point identification messages. See Figure above.
Find the location and cause of the Supervisory condition. Follow your building and company procedures.	Lights, buzzers, and displays continue.
Respond according to your facility's supervisory response procedure.	Lights, buzzers, and displays continue.
ACCEPT the supervisory events (See 1.4., page 7.)	This provides a list of devices that have been activated.
After cause has been found, response made, and events accepted, SILENCE the system. (See Section 1.5., page 8)	(See Section 1.5., page 8 .)
RESET the system. (See Section 1.6. page 9.)	(See Section 1.6. page 9.)
WARNING: Do not allow a fire control panel to remain in a Supervisory condition. The fire suppression system may not respond properly to a fire alarm condition.	

1.3. Quick Response– Trouble

A TROUBLE condition is indicated when there is a problem with the fire detection system. It is important to respond immediately, because the system may be unable to detect a fire.

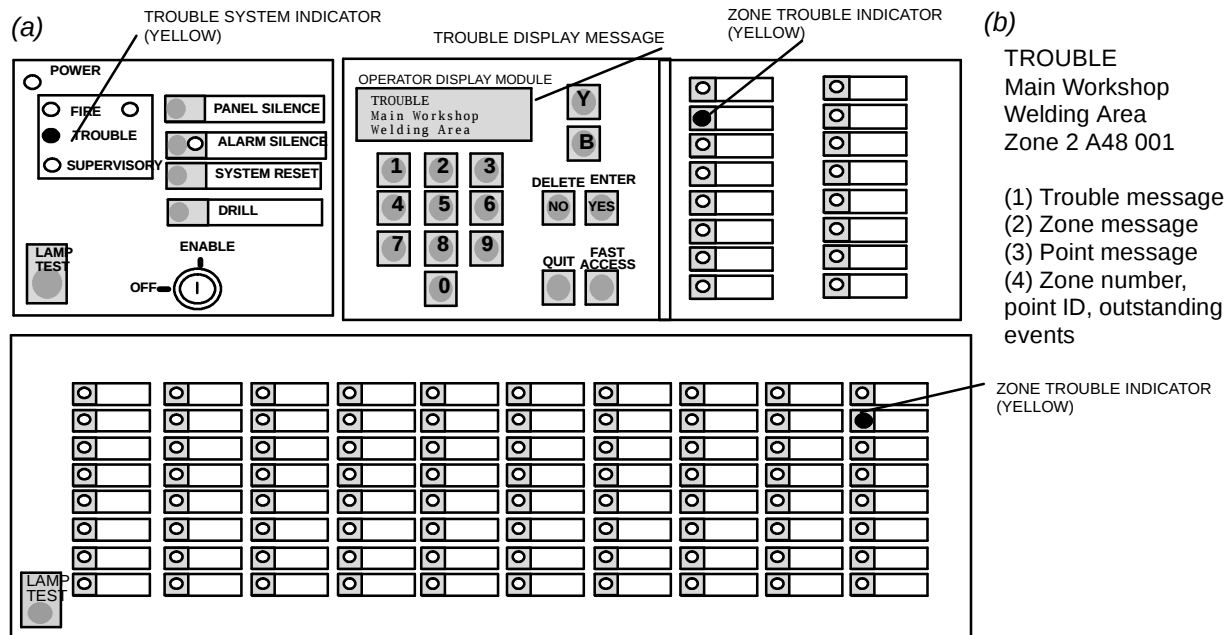


Figure 1-6 (a) TROUBLE and Zone Trouble Indicators, (b) display TROUBLE message.

What You do	What happens
Look at the AUTOCALL TFX-500M/800M control panels to see TROUBLE lights and messages. Listen for TROUBLE signals.	1 Yellow TROUBLE LED light. 2 Yellow ZONE TROUBLE LED(s) light. 2 Buzzer sounds a pulsing tone. 3 Display gives TROUBLE message.
Read the display to determine where the trouble condition originated.	Display shows zone and point identification messages. See Figure above.
Find the location and cause of the Trouble condition. Follow your building and company procedures.	Lights, buzzers, and displays continue.
Respond according to your facility's Trouble response procedure.	Lights, buzzers, and displays continue.
ACCEPT the trouble events (See Section 1.4., page 7.)	This provides a list of devices that have been activated.
After cause has been found, response made, and events accepted, SILENCE the system. (See Section 1.5. page 8.)	(See Section 1.5. page 8.)
RESET the system. (See Section 1.6., page 9.)	(See Section 1.6., page 9.)
WARNING: Do not allow a fire control panel to remain in a Trouble condition. The fire control system may not respond properly to a fire alarm condition. Multiple faults may be indicated by a "Fault Overflow" message. See Section 2.7., page 17.	

1.4. Quick Response— Accept (Acknowledge) Alarms

Before you silence the alarms or reset the system, you should “accept” (acknowledge) the event at the control panel.

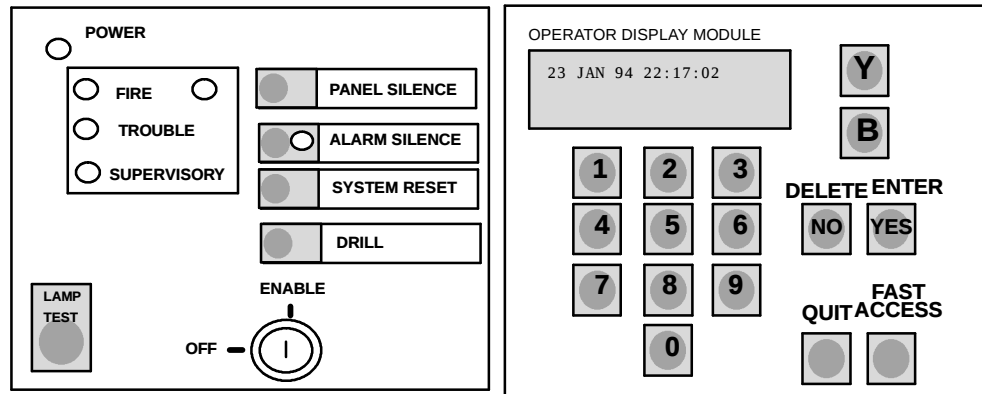


Figure 1-7 Enter your Access Code or use Special Passcode (for example, 0911) at touch-pad for Event Acceptance prompt.

1. Enter your passcode number or use Special Passcode (0911) and press **YES/ENTER**. The display will respond with the following message:

**Do you want to
accept events?**

2. Press **YES/ENTER** again. The display will then show a message that looks like this example:

**FIRE ALARM
Main Workshop
Zone 4 A48 001
accept (Y/N)?**

3. Press **YES/ENTER** to accept the event. The display will say: **event accepted**. If the event displayed is NOT to be accepted, press **NO/DELETE** and the display will show the next event (if any). Pressing **▼** or **▲** will move the display through all the outstanding (unaccepted) events.

1.5. Quick Response— Alarm Silence

After you see a FIRE alarm, find the cause of the alarm. Then respond in accordance with your facility's emergency response guidelines. Finally, SILENCE the signalling appliances, as described below.

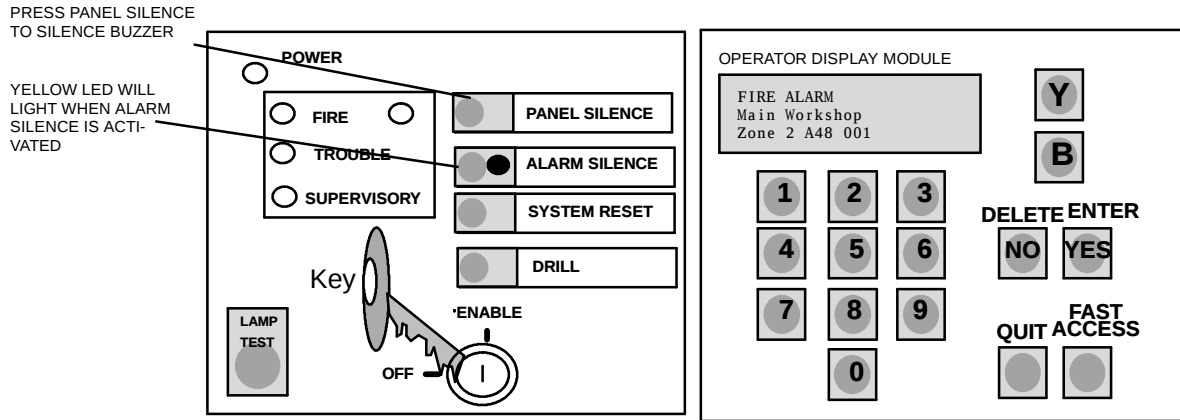


Figure 1-8 Alarm Silence. Turn keyswitch to "Enable," press ALARM SILENCE.

What you do	What happens
Insert key into keyswitch. Turn to the Enable position (12 o'clock position) .	Allows access to touchpad functions.
Press ALARM SILENCE	1 Buzzer will change from constant to pulsing tone for alarm; change from pulsing to off for trouble or supervisory alarm. 2 Fire Zone red LED will light continuously. 3 Bells, horns, etc. (signalling appliances) will be silenced. 4 All alarm outputs will remain active. 5 Display will continue to display alarm information.
Press ▼ and ▲ to see a list of alarms and other system activities.	Fire alarm messages will be displayed first. Trouble conditions will also be displayed, but only after the last fire event has been viewed.
ACCEPT alarms. (See Section 1.4., page 7)	(See Section 1.4., page 7 .)
After alarm cause has been found and remedied, RESET the system. (See Section 1.6., page 9.)	(See Section 1.6., page 9)

NOTE: **ALARM SILENCE** only silences the notification appliances and does not reset the alarm outputs.

1.6. Quick Response— System Reset

The System Reset function resets the panel to Standby, and turns off outputs.

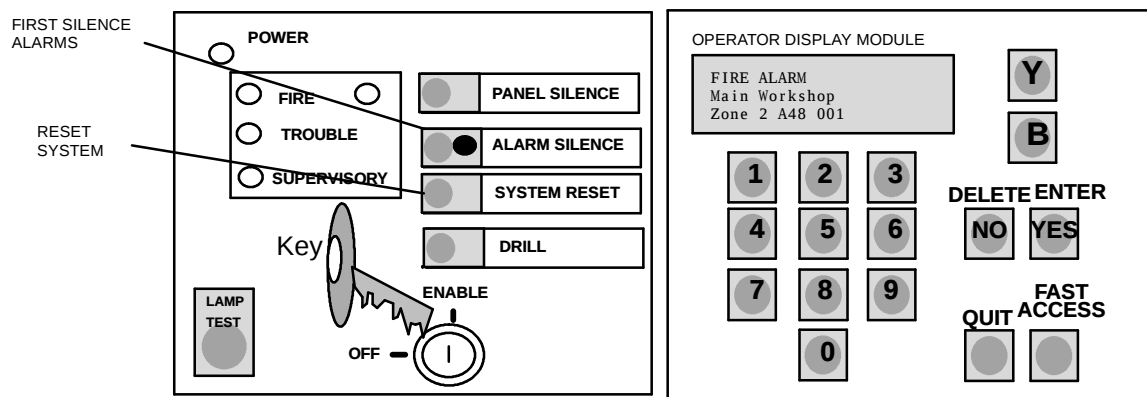
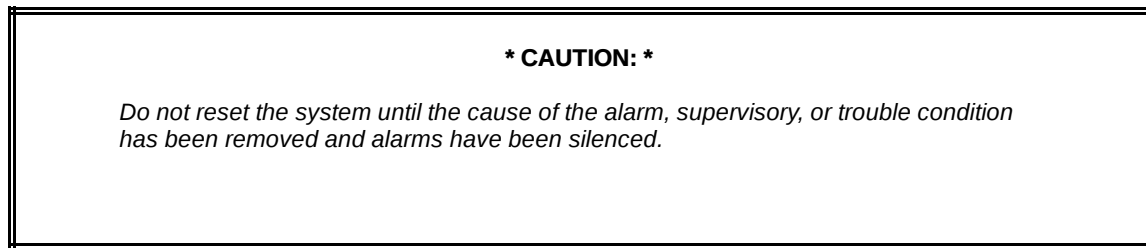


Figure 1–9 Resetting the AUTOCALL TFX-500M/800M fire alarm system.

To reset the system:

1. Accept events.
2. Insert the key and turn the keyswitch to Enable (12 o'clock position) position.
3. Press **ALARM SILENCE** to silence the signalling appliances.
4. Press **RESET** to reset the system.

The display panel will respond as follows:

Resetting...
countdown 30

The timer will count down from its starting point to zero, then the system will reset (at the end of the count-down period, the power to the 2-way data circuits will be reduced to reset latching devices). All alarm outputs will remain active during the countdown. The alarm outputs will de-activate only if all the inputs have cleared. The display will respond as follows:

reset completed

Section 2.

Detailed Operating Instructions

This section describes AUTOCALL TFX-500M/800M controls and indicators and details how the AUTOCALL TFX-500M and AUTOCALL TFX-800M function during normal operation.

2.1. Controls and Indicators

Look at the front of a AUTOCALL TFX-500M/800M control panels. They contain system condition indicators, zone condition indicators, a message display, touch-pad, and keyswitch.

2.1.1. Keyswitch

A two-position keyswitch, with positions Off and Enable gives access to important panel functions. This switch must be operated to enable the fire control touch-buttons:

DRILL, **ALARM SILENCE**, **PANEL SILENCE**, and **RESET**.

The positions of the keyswitch are not marked on the front panel but are as follows:

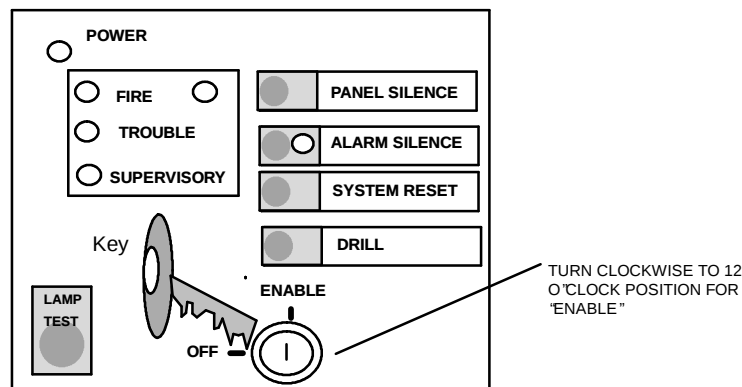


Figure 2-1 AUTOCALL TFX-500M/800M Keyswitch Positions.

2.1.2. Fire Control Touch-buttons

There are four fire control touch-buttons on the main panel of the AUTOCALL TFX-500M/800M.

DRILL, **ALARM SILENCE**, **PANEL SILENCE**, and **RESET**.

The **PANEL SILENCE** momentary switch turns off the panel buzzer (leaving visual indicators and all other annunciating devices active.)

Drill, Silence, and Reset functions are active only when the keyswitch is in the Enable position.

DRILL– Pressing **DRILL**, while the keyswitch is in the Enable position, activates signalling appliances (and any other configured outputs), such as horns, bells, strobes, etc. In addition, the two red FIRE LEDs will light, and the internal buzzer will sound continuously.

FIRE DRILL
System Zone

**Non-Addressable point
LBO S1 001**

NOTE: The last line of the display shows the absolute system address of the **DRILL** touch-button, followed by the number of outstanding events.

TEST– Pressing **TEST** causes all the front panel LEDs and the internal buzzer to be operated for a few seconds. If the system includes Remote Ops/Dis Panels, only the panel having **TEST** operated is tested. **TEST** is always active, regardless of the position of the keyswitch. Pressing **TEST** several times will cause the test to be carried out repeatedly.

SILENCE– Pressing **ALARM SILENCE**, while the keyswitch is in the Enable position, silences signalling appliances and the internal buzzer. Press **RESET** to reset the system.

Note: If the Silence Inhibit option has been enabled, activation of the **ALARM SILENCE** touch-button after an Alarm Condition will be ignored for the time period that was programmed. After the inhibit time period has expired, the Silence function will be restored and will activate when the **ALARM SILENCE** touch-button is pressed.

RESET– Pressing **RESET**, while the keyswitch is in the Enable position, resets the system following the occurrence of an alarm or other event. The system can only be reset after the signalling devices have been silenced, by pressing **ALARM SILENCE**.

2.1.3. Data Entry Touch-buttons

YES/ENTER– After you input data or numbers, **YES/ENTER** completes the entry and sends it to the AUTOCALL TFX-500/800 control panel. Also used to provide a “Yes” response to a question.

NO/DELETE– After you input data or numbers, **NO/DELETE** deletes (erases) your last entry, so you can correct mistakes. Also used to provide a “No” response to a question.

▼ Scroll Down– Used to scroll downward through a display, or log one entry at a time. This touch-button will auto-repeat (operate continuously if held down).

▲ Scroll Up– Used to scroll upward through a display or, log one entry at a time. This touch-button will auto-repeat.

QUIT– Quits the current action and does not complete the command you were entering (or displaying).

FAST ACCESS– Used to access a system option quickly, without using the menus. After pressing **FAST ACCESS**, enter a numeric code. The numeric code you enter determines the option accessed.

Numbers– 0 TO 9– Used to enter access codes, general data, etc.

2.2. Indicators

AUTOCALL TFX-500M/800M indicators include the display and LED indicators on the main panel(s) and Remote Ops/Dis panels..

2.2.1. Display

A four line alpha-numeric LCD display provides date/time and system status messages. A display light improves the readability of the display in low-light conditions. (The display is lighted only when the keyswitch is in the Enable position.)

2.2.2. LED Indicators

The AUTOCALL TFX-500M/800M indicates system condition and zone condition by means of LEDs.

Table 2-1 Condition Indicators

LED Color	Condition	What It Means
System Condition LEDs		
Green	Power	Shows there is system power when it is lighted.
Red (2)	Fire	Shows a Fire condition.
Yellow	Trouble	Shows a system, sensor, or loop fault; or isolate.
Yellow	Supervisory	Shows that a sprinkler valve is the wrong position (or input from a device in the "Supervisory" group).
Yellow	Alarm Silence	Shows that system indicating and signaling devices have been silenced.
Zone Condition LEDs		
Red (16 or 80)	Fire Zones	Shows which zone an alarm is in.
Yellow (16 or 80)	Zone Fault	Shows which zone a fault is in.

2.2.3. Remote Panels, Printers

Depending on how your system is set up, you may receive information from other types of devices other than the AUTOCALL TFX-500M/800M control panel. These are Remote Ops/Dis Panels, Annunciator Panels, and Printers.

Remote Ops/Dis Panels

A Remote Ops/Dis panel allows the AUTOCALL TFX-500M/800M control panel to be operated from a remote location. The front panel of the Remote Ops/Dis panel is identical to that of the AUTOCALL TFX-500M/800M (see Figure 1.2 or 1.3). It shows the state of the system and all AUTOCALL TFX-500M/800M functions may be performed at the Remote Ops/Dis panel. However, only one operator at a time may have access to the AUTOCALL TFX-500M/800M system. Suppose an operator has gained access to AUTOCALL TFX-500/800 functions by entering a passcode at either the AUTOCALL TFX-500M/800M control panel or a Remote Ops/Dis panel. A display message on all other system display panels will appear:

Remote Lock

Access is denied to any other operator, except to view events. A brief description of the function being performed (at the panel in use) is also displayed on the other panels.

Printers

The AUTOCALL TFX-500M/800M provides memory capacity for storage of data to be sent to the printer. Printer messages are stored in priority order, then in order of occurrence. Alarms first, trouble and supervisory messages next. Printer memory stores up to 590 messages. The AUTOCALL TFX-500M/800M supervises the printer for wiring continuity and loss of power that would prevent it from responding to the AUTOCALL TFX-500M/800M a control panel.

2.3. Normal Operation

A powerful feature of the AUTOCALL TFX-500M/800M system is its flexibility. It allows an operator to isolate (disable) parts of the fire control system. Because of this, access to panel functions is restricted (by passcode), to only those people who are thoroughly trained and authorized.

2.3.1. Access Levels

Access is limited through the use of passcodes. An operator must enter a passcode at the front panel touch-pad to use the AUTOCALL TFX-500M/800M control functions. After the passcode is entered, a menu is displayed. The operator then selects a function from the menu. The menu that is displayed depends upon the access level of the operator's passcode. (See Table 2-2.) Pressing **QUIT** at any time will return to the preceding menu step or menu function.

A Special Passcode (default, 0911) may be assigned to allow quick access by emergency personnel.

Table 2-2 Access Levels and Passcodes

Access Level	Number Allowed per System	Functions Available	Passcode (digits allowed)
Special (e.g., 0911)	1	View system status, Set clock, Test system, Print data	nnnn
Customer Operator	24	View system status, Set clock, Test system, Print data	0001 to 9999
Customer Manager	2	All functions of "Customer Operator" level, plus View log, Isolate points, and De-isolate points	0001 to 9999

2.3.2. Initial Condition

At initial power-up, the AUTOCALL TFX-500M/800M display shows the following message until the power-up sequence is completed:

**TFX-500
initialising...**

or

**TFX-800
initialising...**

Once the power-up sequence has completed, this message should not be seen because the AUTOCALL TFX-500M/800M is connected to AC power. It also has battery backup power to provide an uninterrupted power supply. Under normal operating conditions (that is, when there are no events present in the system) the display shows the date and time. For example:

23 Jan 90 22:17:02

Time is shown in the 24-hour (military) format as **HOURS:MINUTES:SECONDS**. For example, 1 PM would display as **13:00:00**. The clock has automatic leap-year correction until the year 2040.

2.3.3. Event Monitoring

The term "event" is used to describe a change in the system that must be acknowledged or one that causes an output. Examples of events include AC power failure, detection of a fire condition, or operation of **DRILL**.

All events trigger a response. The events are classified by event type. One of the following occurs as a result of an event:

- S** Full Alarm (EVACUATE)
- S** ALERT
- S** SUPERVISORY CONDITION
- S** FAULT
- S** PRE-ALARM WARNING

S General event

When an event occurs it is saved in the event log.

To view a list of only those events which are outstanding (have not been accepted), perform the following:

S Enter your passcode or emergency-access passcode.

S Display will show:

**Do you wish to
accept events?**

Press **YES/ENTER**,

S Scroll forward or backward through the list by pressing either **▼** or **▲**. See "Quick Response---Alarm Acceptance", Section 1.4 for event acceptance.

The event log may be viewed in one of three ways, but is accessible only at the Customer Manager access level, or higher.

Chronological --- All outstanding events, displayed in the order of occurrence; the oldest first.

Reverse-Chronological --- All outstanding events, displayed in the reverse order of occurrence; the newest first.

Priority --- All outstanding events may be displayed and viewed in the order of priority. Event priority is as follows:

- | | |
|-----------------------|--------------------------------|
| 1. FIRE (EVACUATE) | 6. FAULTS (ADDRESSABLE POINTS) |
| 2. FIRE (ALERT) | 7. FAULTS (CLEAR) |
| 3. WARNINGS | 8. RESET/SILENCE |
| 4. FAULTS (SYSTEM) | 9. PRINTER OFF LINE |
| 5. SUPERVISORY EVENTS | |

To view the entire contents of the event log, select the "View log" option from the main menu.

1. Enter your passcode using the numeric touch-pad. Press **YES/ENTER**. The display will respond with the following message:

**Do you want to
view the log?**

2. Press **YES/ENTER** again. The display will then respond with the following message:

**Oldest
event first**

3. Press **YES/ENTER** to view the log in chronological order, or press **NO/DELETE** to display the following message:

**Newest
event first?**

4. Press **YES/ENTER** to view the log in reverse- chronological order, or press **NO/DELETE** to display the following message:

**Highest priority
event first?**

5. Press **YES/ENTER** to view the log in order of priority, or press **NO/DELETE** to exit the "View log" option, and display the following message:

**View system
statuses?**

2.4. Multiple Events

Often, several types of events occur within a short span of time. When this happens, the system provides for priority of events.

2.4.1. Event Priority

The AUTOCALL TFX-500M/800M control panel gives alarms priority over trouble conditions. If a trouble condition is present in the system when a FIRE alarm is received, the system will respond as follows:

- S** The yellow System TROUBLE LED will remain on, but Zonal TROUBLE LEDs will go out.
- S** The system will respond to the alarm as described in "Quick Response --- Fire Alarm" (Section 1.1). Once the alarm has been cleared and the system reset (See "Quick Response --- System Reset," Section 1.6), the system will again respond to the trouble. If an alarm condition is present in the system when a trouble is received, the System TROUBLE LED will go on, but the Zonal TROUBLE LEDs will not respond to the trouble until the alarm has been cleared. If an alarm condition is present in the system when a second alarm is received, the system response depends upon the nature and source of the second alarm. This happens as follows:
 1. If the bells, horns, strobes (signalling appliances) have NOT been silenced, the following will occur:
 - a. FIRE ZONE red light LED will begin blinking.
 - b. Internal buzzer will sound continuously.
 - c. Display shows the message for the FIRST alarm.
 - d. Outstanding Events counter on the display will be incremented (increased by one).
 2. If the bells, horns, strobes (signalling appliances) HAVE been silenced and the new alarm is in the SAME zone as the first alarm, the following will occur:
 - a. Outstanding Events counter will be incremented.
 - b. Signalling appliances will not be reactivated.
 3. If the bells, horns, strobes (signalling appliances) HAVE been silenced and the new alarm is in a DIFFERENT zone as the first alarm, the following will occur:
 - a. FIRE ZONE red LED will begin to blink.
 - b. Internal buzzer will sound continuously.
 - c. Signalling appliances will be re-activated.
 - d. Outstanding Events counter will be incremented.

NOTE: If the second alarm is an EVACUATE alarm, the signalling appliances and internal buzzer will be activated and the appropriate FIRE ZONE LED will blink.

2.4.2. "Alarm Resound Always" Option

All indicating appliances resound EXCEPT the ones in the "Bell Map Alarm Sounders" Group (common alarm sounders) IF the new Alarm is an Alert coming from a zone *already in alarm*. AUTOCALL TFX-500M/800M CONSYS r programming provides for an "Alarm Resound Always" option. If this option has been programmed, all bells, horns and other indicating appliances will resound when ANY Alarm event occurs (in the same or different zone).

2.4.3. "Bell Map Alarm Visuals" Group

The "Bell Map Alarm Visuals" group function allows the "Bell Map Visuals" group to remain ON after other indicating appliances have been SILENCED. This group is SILENCED only after **RESET**.

2.5. Pre-Alarm Warnings and Alarm Verification

Pre-alarm warnings provide opportunities to investigate conditions that may result in a fire emergency. Alarm verification provides automatic alarm confirmation to reduce nuisance alarms.

2.5.1. Pre-Alarm Warning

The AUTOCALL TFX-500M/800M system provides for alert messages for pre-alarm conditions and for alarm verification functions. Pre-Alarm Warnings The AUTOCALL TFX-500M/800M may display a message including a

warning indication. For example, a detector identifies an accumulation of smoke or heat that may have resulted from a fire, but the alarm threshold has not yet been reached. A "Pre-alarm Warning" message will be displayed, but the signalling appliances and LEDs do not respond. Proceed as follows:

1. Accept the event (see Section 1.4). Note the location of the event.
2. Remedy the cause of the condition indicated, taking care to determine whether the warning was caused by a fire condition or a trouble (device or system fault, etc.). Monitor the system to determine whether or not the detector develops an alarm condition some time later on. If a fire condition is present, an alarm will be triggered, regardless of whether the pre-alarm event was accepted or not.

2.5.2. Alarm Verification

Detector Alarm Verification Mode—CONSYS programming allows certain detectors to be programmed for "Alarm Verification Mode." When a detector on a 2-way data circuit (ISN-512I/P or ISA-412I/P) is confirmed into the Alarm band, it enters a Verification mode. An "ALARM VERIFYING" event is generated and a RETARD-RESET-RESTART period of 30 seconds is started. After the RETARD-RESET-RESTART period ends, a 60-second CONFIRMATION time period begins. If, at any time during this CONFIRMATION period, the device is re-confirmed into an ALARM, an ALARM will be raised. If the device is not confirmed into the ALARM band during the CONFIRMATION period, then the Verification is concluded and the device returns to the Non-Verification mode.

IXA-500DM Module with Alarm Verification—IXA-500DM Conventional Detector Module may have its "Verification" function enabled. Once the control unit has displayed an "Alarm Verifying" message, a 10-second "reset" period is generated. After the reset period, a 60-second "confirmation" period is begun. If, during the confirmation period, the control unit determines that a detector is in alarm, an "Alarm" condition will be triggered. The system will not return to standby for at least 60 seconds after reset; and then, only if there are no alarms.

Note: When the system returns to standby, no message is displayed, except the usual date/time display.

If there are no other troubles or events, the system will return to the normal, or Standby mode. The display will return to the normal date/time display.

NOTE: Alarms override trouble conditions. Any trouble conditions that have been overridden by an alarm will now be displayed.

Alarm Verification Counters—A record is kept of the number of times a particular addressable point (detector or detector Module) has entered into an alarm verification sequence. When the alarm verification counter for a particular device exceeds a threshold count (set by CONSYS) a trouble event is generated indicating that the point in question may require maintenance (for example, a dirty detector). System RESET restores all verification counters to zero.

2.6. Positive Alarm Sequence (PAS)

NFPA 72 codes allow for an alarm response called Positive Alarm Sequence (PAS). PAS (enabled through CONSYS) allows trained personnel to investigate an alarm occurrence in a specified manner before activation of the alarm indicating appliances. The TFX-500M/800M Positive Alarm Sequence operates as follows:

1. The signal from a detector (smoke/heat) selected for the purpose (PAS) shall be acknowledged at the control unit by trained personnel within fifteen (15) seconds of annunciation in order to initiate the alarm investigation phase. If the signal is not acknowledged in 15 seconds, all normal building and remote signals will be activated automatically.
2. Trained personnel will have up to 180 seconds during the alarm investigation phase to determine the fire condition and reset the system. If the system is not reset during this investigation phase, all normal building and remote signals will be activated automatically.
3. If a second selected automatic fire detector is actuated during the alarm investigation phase, all normal building and remote signals will immediately be activated automatically.
4. If any other initiating device is actuated, all normal building and remote signals will be activated automatically.
5. The system shall provide means to bypass the positive alarm sequence.

2.7. Fault Overflow

When there are multiple fault conditions in the TFX-500M/800M system (more than 15), a "Fault Overflow" condition occurs. When this happens, individual trouble/fault information may not be reliable until the fault overflow condition is removed.

Warning: ***Do not allow a fire control panel to remain in a Trouble condition. The fire control system may not respond properly to a fire alarm condition. Contact your Fire Protection Systems representative or Technical Services, 835 Sharon Drive, Westlake, Ohio 44145 (440) 871-9900 if Fault Overflow condition occurs.***

Section 3.

TFX-500M/800M Functions

The functions available to you on the AUTOCALL TFX-500M or AUTOCALL TFX-800M control panel will depend upon your passcode level (see "Access Levels," Section 2.3.1). The system is usually in the "Standby" mode (displaying the date and time). Entering a passcode gives the user access to the Main Menu shown in Figure 3.1.

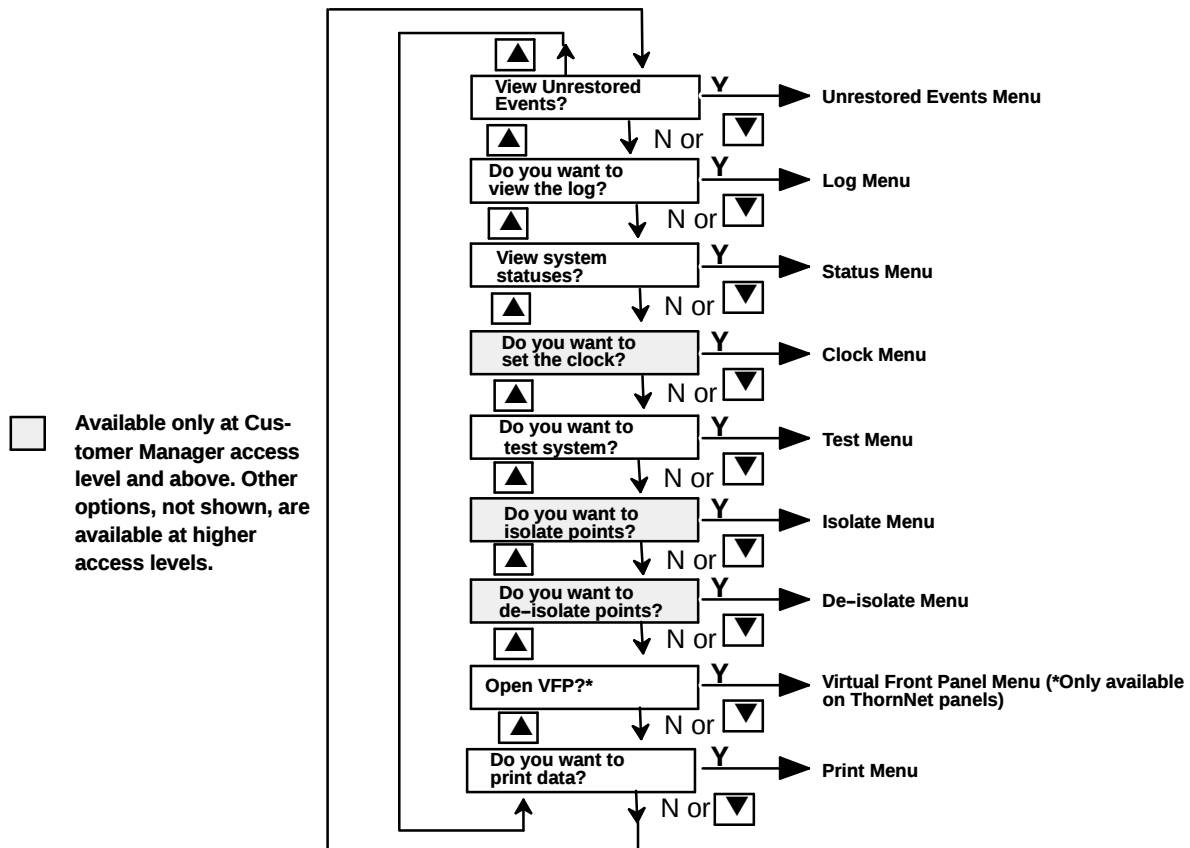


Figure 3-1 Main Menu options sequence.

3.1. Main Menu

If there are any outstanding (unaccepted) events (alarms or faults) present in the system, the system may be in the "View Outstanding Events" mode, rather than in the "Standby" mode. In the "View Outstanding Events" mode, the display will respond with a message similar to this example showing zone message and point identification:

FIRE ALARM
Main Workshop
Welding Area
Zone 2 A48 001

Before you access the main menu, you should accept these events. However, it is possible to access menu steps directly by means of the Fast Access Codes (see Table 3-1 for Fast Access Codes). But, if you use the fast access code, the menu will always return to the "Accept Events" menu step if you attempt to quit while there are outstanding (unaccepted) events remaining.

Table 3-1 Main Menu Fast Access Codes

Code	Menu Step	Code	Menu Step
0001	Do you want to accept events?	0030	Do you want to test system?
0009	View Unrestored Events?	0040	Do you want to isolate points?
0010	Do you want to view the log?	0050	Do you want to de-isolate points?
0020	Do you want to set the clock?	0080	Do you want to print data?

To select an option, move through the menu using the , , or **NO/DELETE**. Press **YES/ENTER** when the desired option is displayed.

3.2. View Unrestored Events

The "View Unrestored Events" menu allows you to view the information related to events that have not been restored. Select the "View Unrestored Events" option from the Main Menu:

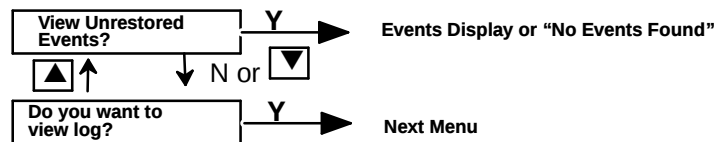


Figure 3-2 View Unrestored Events menu options sequence.

If there are unrestored events in the system, the display will show the event(s) in the following format:

Net Ground Fault
Panel #4 System Zone
12:00:16 28Jan 95
Zn 0400 MP P15

If there are no unrestored events in the system, the display will show:

No Events Found
In Log

The display will then proceed to the next menu option, "Do you want to view log?"

3.3. View Log Menu

The "View Log" Menu allows you to choose the order in which you want to see events and system statuses that have been logged. **Selection of Menu** --- Select the "View Log" option from the Main Menu:

S Oldest Event First --- The contents of the Event Log will be displayed in the order of occurrence (chronological), with oldest first. Press to move forward through the log.

Press to move backward through the log. For example:

SYSTEM RESTART
Logical Zone 0
12:00:16 28Jan
SUP LB0 S2

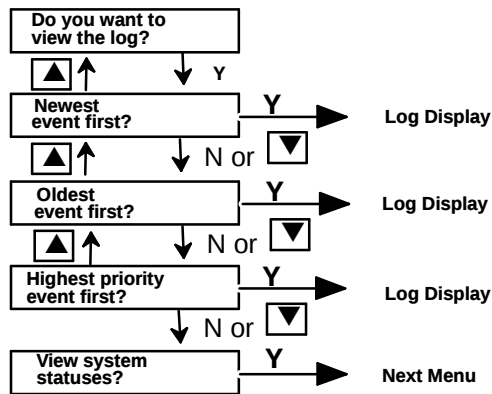


Figure 3-3 View Log menu options sequence.

Note: The last line of the display shows the absolute system address of the source of the event.

When either the beginning OR end of the log is reached, an **End of Log!** message will be displayed, and the internal buzzer will beep twice. Press **QUIT** to exit the function.

S Newest Event First --- Contents of the Event Log will be displayed in the reverse order of occurrence (reverse- chronological), with newest first. Press **▼** to move forward through the log. Press **▲** to move backward through the log. When either the beginning OR end of the log is reached, an **End of Log!** message will be displayed, and the internal buzzer will beep twice. Press **QUIT** to exit the function.

S Highest Priority Event First --- The contents of the Event Log will be displayed in order of priority, the highest priority first. Press **▼** to move forward through the log. Press **▲** to move backward through the log. When either the beginning OR end of the log is reached, an **End of Log!** message will be displayed, and the internal buzzer will beep twice. Press **QUIT** to exit the function.

Event Priority:

- | | |
|-----------------------|--------------------------------|
| 1. FIRE (EVACUATE) | 6. FAULTS (ADDRESSABLE POINTS) |
| 2. FIRE (ALERT) | 7. FAULTS (CLEAR) |
| 3. WARNINGS | 8. RESET/SILENCE |
| 4. FAULTS (SYSTEM) | 9. PRINTER OFF LINE |
| 5. SUPERVISORY EVENTS | |

3.4. View System Statuses Menu

Select "View System Statuses" option from the Main Menu. This selection allows you to choose various system statuses. These are (1) Zone Alarm Status (2) Zone Trouble Status (3) Zone Isolation Status (4) Common Alarm Status (5) Common Fault Status (6) Common Disabled Status The sequence of options shown in Figure 3-4 will be displayed.

View Zones Alarm Status --- The Alarm/Clear status of each zone may be viewed. A "1" indicates that a zone IS in alarm, a "0" indicates that it is not. Thus, for the example given below, zones 2 and 13 are in alarm. Pressing **QUIT** moves to the Zone Trouble Status menu option. The Zone Alarm Status display is in the following format:

Zones Alarm St.

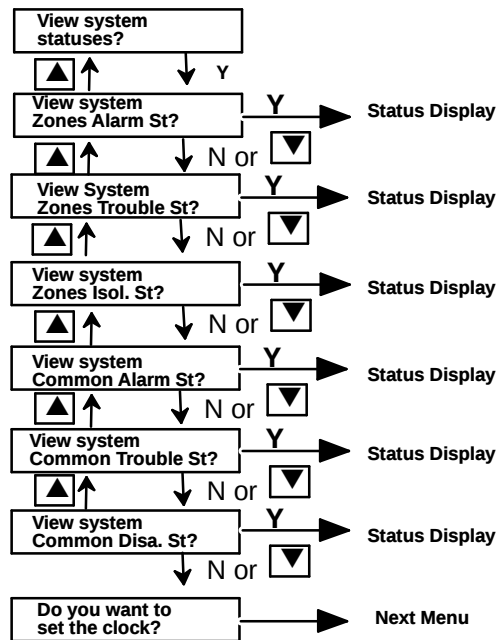


Figure 3-4 View System Statuses menu options sequence.

1-8 0100 0000
9-16 0000 1000

View Zones Trouble Status --- The Trouble/Clear status of each zone may be viewed. A "1" indicates that a zone IS in fault, a "0" indicates that it is not. Thus, for the example given below, zones 5 and 9 are in fault. Pressing **QUIT** moves to the Zone Isolate Status menu option. The Zone Trouble Status display is the following format:

Zones Trouble St.
1-8 0000 1000
9-16 1000 0000

View Zones Isolate Status --- The Isolated/De-isolated status of each of the zones may be viewed. A "1" indicates that a zone (or a point in the zone) IS isolated, a "0" indicates that it is not. Thus, for the example given below, all (or part) of zones 1 and 16 are isolated. Pressing QUIT will move to the Common Alarm Status menu option. The Zone Isolate Status display is in the following format:

Zones Isol. St.
1-8 1000 0000
9-16 0000 0001

Note: By using the Trouble and Isolate status displays, a fault can be determined. A "trouble" is a "fault" if it is not "isolation."

View Common Alarm Status --- The Common Alarm status of the system may be viewed. A "1" indicates that a Common Alarm exists, a "0" indicates that it does not. Pressing **QUIT** will move to the Common Trouble Status menu option. The Common Alarm Status display is in the following format:

Common Alarm St.
0

View Common Trouble Status --- The Common Trouble status of the system may be viewed. A "1" indicates that a Common Trouble exists, a "0" indicates that it does not. Pressing **QUIT** will move to the Common Disabled Status menu option. The Common Trouble Status display is in the following format:

Common Trouble St.
0

Note: Common Trouble display occurs for either fault or isolate events.

View Common Disabled Status---The Common Disabled status of the system may be viewed. A "1" indicates that a Common Disabled condition exists (a point is isolated or a function is disabled), a "0" indicates that it does not. Pressing **QUIT** will exit the "View System Statuses" option, and move to the Set Clock menu option on the Main Menu. The Common Disabled Status display is in the following format:

Common Disa. St.
0

3.5. Set Clock Menu

The Set Clock Menu allows an operator to set the time and date displayed on the system. Select the "Set Clock" option from the Main Menu. The following sequence of options shown in Figure 3-5 will be displayed.

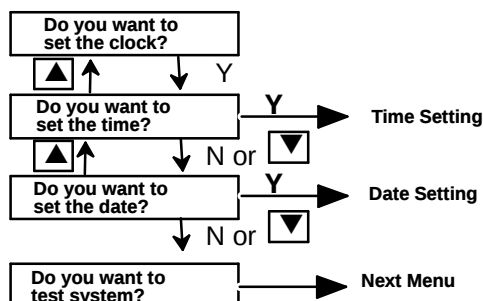


Figure 3-5 Set Clock menu options sequence.

Set Time --- The system time may be set. Proceed as follows:

1. Select the "Set Time" option. The display will respond with the following message:
Enter time as:-
HHMMSS
In this display, HH = Hours, MM = Minutes, SS = Seconds.
The cursor will blink to indicate that an operator entry is required.
2. Enter a time a few seconds in advance of the correct time (using leading zeros where necessary). Use twenty-four-hour format (military time). For example, 14:25:30.
3. When the actual time corresponds with the entered time, press **YES/ENTER**.
4. If you make an error, press **NO/DELETE** to delete what you have typed, then retype. You may also press **QUIT**. This will allow the option to be ended and restarted.
5. The system will now move to the Set Date option.

Set Date---The system date may be set. Proceed as follows:

1. Select the "Set Date" option. The display will respond with the following message:
Enter date as:-
DDMMYY
In this display, DD = Day, MM = Month, and YY = Year.
2. Enter the date in the format required, using leading zeros where necessary, and press **YES/ENTER**. The display will respond with the following message:

Sun=1... Sat=7

Enter day:

- Now you need to enter a code for the day of the week. Use the following table to choose the number that corresponds to the day of the week. Then press **YES/ENTER**

Day	Number
Sunday	1
Monday	2
Tuesday	3
Wednesday	4
Thursday	5
Friday	6
Saturday	7

- If you make an error, press **QUIT** to end and restart the option. Take care not to rest your fingers on the touch-buttons. If you do, characters may repeat.

3.6. Test System Menu

Functions on this menu allow devices to be tested without raising a full alarm. Select the "Test System" option from the main menu. The sequence of options shown in Figure 3-6 will be displayed.

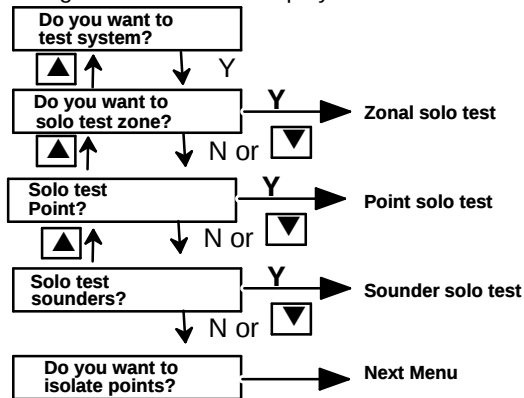


Figure 3-6 Test System menu options sequence.

Note: During Solo Test, SYSTEM TROUBLE LED and the ZONE TROUBLE LED for the zone(s) being tested are lighted continuously.

Solo Test Zone --- This option allows the detectors and manual pullstations in a zone to be checked for correct operation WITHOUT raising an alarm.

Warning: THIS FUNCTION WILL DISABLE THE ZONE(S) UNDER TEST.

- Select the "Solo Test Zone" option from the menu. The display will respond with the following message:

Zone no.:
(Quit to Exit)

A blinking cursor indicates that an operator entry is required.

- Enter the number of the required zone. The display will respond with the following message:

Solo test active
000 pnts tested

exit with quit

- Walk around the zone and activate detectors, manual pullstations, etc., placing them into an alarm condition.

4. The LEDs on the last five devices tested should always be lit and the "points tested" count on the display should increment each time a point is tested. If a printer is attached (and on-line), details of the points tested will be printed as they are tested. For a description of the print-out, together with instructions for printing the details of faulty and missed points, see "Print Data Menu," section 3.8.
5. Once all devices have been tested, press **QUIT**. The display will respond with a summary in the format:

**000 points untested
001 points in Alarm
print data?**

If printed details of missed and faulty points are required, press **YES/ENTER**, the LCD displays: **print initiated**

6. **The solo test function will be automatically terminated one hour after the last device is tested, if not terminated manually.**

Do not quit the solo test function while devices are still in an alarm condition. (That is, if the key has not been removed from a pullstation, or detectors still contain smoke). If you do, the AUTOCALL TFX-500M/800M panel will immediately signal an alarm. Always wait five minutes after testing the last device to allow any smoke to clear from the detectors. Or, wait until the Points-in-Alarm counter on the display reaches zero. (The counter is only updated by clearing it, then re-selecting the display, using **NO/DELETE** and **QUIT** respectively).

Solo Test Point— This function allows multiple conventional devices connected to single addressable points (contact monitor modules or detector monitor modules) to be tested without raising an alarm.

Warning: *This function will disable the point(s) under test.*

1. Select the "Solo Test Point" option from the menu. The display will respond with the following message:
Loop: A (Y/N)?
2. If the point to be tested is on Loop A, press **YES/ENTER**. Go to step 7. and proceed.
3. If the point to be tested is not on Loop A, press **NO/DELETE**. The display will respond with the following message: **Loop B (Y/N)?**
4. If the point to be tested is on Loop B, press **YES/ENTER**. Go to step 7. and proceed.
5. If the point to be tested is not on Loop B, press **NO/DELETE**. For AUTOCALL TFX-800, Loops "C" through "K" will display one at a time as above.
6. If you make a mistake, press **NO/DELETE**. The display will return to that shown in step 1.
7. Once the correct loop has been chosen, the display will respond with the following message:
**Point No.:
(Quit to exit)**
8. Enter the address of the required point to be tested and press **YES/ENTER**. The AUTOCALL TFX-500M/800M panel will pause briefly and then display:
**Solo test active
000 activations
exit with quit**
9. To test multiple conventional devices connected to a contact monitor module, activate only one contact at a time. The contact must be active for 10 seconds, then de-activate the contact for 10 seconds before testing the next contact.

The panel will increment the LCD display counter for each recorded contact activation.
10. To test multiple conventional detectors connected to a detector monitor module, activate only one detector at a time. Activate the detector with smoke, and allow 10 seconds from detector activation for

the control panel to recognize the alarm. Approximately 10 seconds later, the panel will reset the zone of conventional detectors for 45 seconds. During this time, make sure the tested detector is clear of smoke, then proceed to test the next detector.

The panel will increment the LCD display counter for each recorded detector activation.

Solo Test Sounders ---- This function allows signalling appliances to be tested without first raising an alarm. It is possible to test either ALL the signalling appliances, or the signalling appliances in *one* zone only. Proceed as follows:

1. Select the "Solo Test Sounders" option from the Test System menu. The display will respond with the following message:

**Zone no:
(Yes=all)**

A blinking cursor indicates that an operator input is required. Entering zone "0" will cause only the common indicating appliances to be tested.

2. Enter the number of the required zone and press **YES/ENTER**.
3. The display will respond with the following message:

**sounders in
Solo test**

exit with quit

All signalling appliances (in the selected zone) will operate for approximately 2 seconds every 30 seconds.

4. Walk around the site to all indicating appliances. Check for correct operation of the indicating appliances.
5. When all the indicating appliances have been checked, press **QUIT**. The display will respond with the following message:

Solo test terminated

6. The Solo test function will automatically terminate one hour after the solo test is completed, if not terminated manually. If an alarm occurs during the solo test, the function will be automatically terminated and the AUTOCALL TFX-500M/800M panel will respond as described in Section 1.1, "Quick Response---Alarm."

3.7. Isolate Menu

This menu selection allows for devices to be isolated so they do not respond to an alarm. Zones and points may be temporarily isolated (taken out of service) for many reasons---device repair, circuit repair, etc. Only Customer Manager status levels and above may access these menu options.

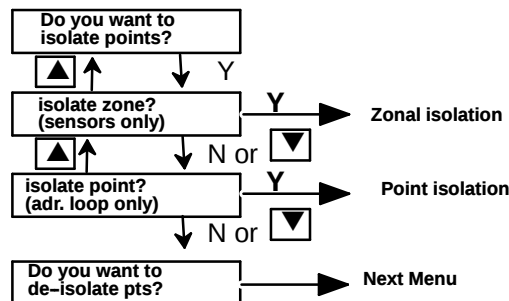


Figure 3-7 Isolate menu options sequence.

Note: When system points are isolated, the SYSTEM TROUBLE LED and ZONE TROUBLE LED related to the isolated point(s) are lighted continuously and the front panel buzzer will sound intermittently.

Select the "Isolate" option from the Main Menu. The sequence of options shown in Figure 3-7 will be displayed:

Isolate Zone (Sensors Only)---All sensors (detectors) may be isolated in a selected zone. Proceed as follows:

1. Select the "Isolate Zone" option from the menu. A flashing cursor indicates that an operator input is required. The display will respond with the following message:

Zone no.:
(0=none,Yes=all)

2. Enter the number of the required zone and press **YES/ENTER**. The AUTOCALL TFX-500M/800M panel will pause briefly and then display:

isolate
successful

3. The ZONE TROUBLE yellow LED will light and the internal buzzer will sound intermittently. The display then returns to the "Isolate zone (sensor only)" display, allowing another zone to be isolated.
4. If a non-existent zone number is entered, the display will respond with the following message:

Point(s) not found

5. If an attempt is made to isolate a zone which is already isolated, the display will respond with the following message:

Point(s) already
isolated

The ZONE TROUBLE LED for that zone, and the buzzer, will continue to operate as a warning that the zone is isolated.

6. If a printer is connected and on-line, each zone disabled will be logged in the following format (in this example, Zone 1 has been isolated):

POINT ISOLATED 3rd Floor 12:15:00 23 Jan 90
Non Addressable Pnt. Zone 1

Isolate Point (2-Way Data Circuits Only) --- Individual devices may be isolated using their addresses. Proceed as follows:

1. Select the "Isolate Point" option from the Isolate menu. The display will respond with the following message: **Loop : A (Y/N)?**
2. If the device to be isolated is on Loop A, press **YES/ENTER**. Go to Step 8 and proceed.
3. If the required device is NOT on Loop A, press **NO/DELETE**. The display will respond with the following message: **Loop: B (Y/N)?**
4. If the device to be isolated is on Loop B, press **YES/ENTER**. Go to Step 8 and proceed.
5. If the required device is NOT on Loop B, press **NO/DELETE**. For AUTOCALL TFX-800, Loops "C" through "K" will display, one at a time. Then the display will respond with the following message: **Loop: All (Y/N)?**
6. If you need to isolate the SAME numbered point on ALL loops, press **YES/ENTER**. Go to Step 8 and proceed.
7. If a mistake is made, press **NO/DELETE**. The display will return to that shown in Step 1.
8. Once the correct loop has been chosen, the display will respond with the following message:

Point no.:
(0=none,Yes=all)

9. Enter the address of the required device and press **YES/ENTER**. The AUTOCALL TFX-500M/800M panel will pause briefly and then display:

isolate successful

The TROUBLE yellow LED will light and the internal buzzer will sound intermittently. The LCD will return to:
isolate point?

(addr. loop only)

display, allowing a further point to be isolated. If a non-existent address is entered, the display will respond with the following message:

Point(s) not found

If an attempt is made to isolate a device which is already isolated, the display will respond with the following message:

Point(s) already isolated

The ZONE TROUBLE yellow LED for the zone, and the buzzer, will continue to operate as a warning that the zone is isolated.

If a printer is connected and on-line, each point disabled will be logged in the following format:

POINT ISOLATED All Zones 12:27:00 23 Jan 90
"Point Label text" Zone 1 A 16

In this example, Point A16 in Zone 1 has been isolated.

3.8. De-Isolate Menu

When selected, the options in this menu allow devices to be de-isolated (will respond to an alarm). Select the "De-Isolate" option from the Main Menu. The menu options sequence shown in Figure 3-8 will be displayed.

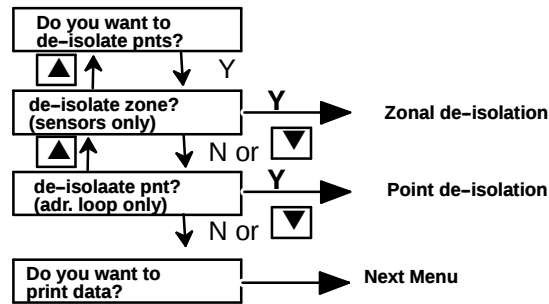


Figure 3-8 De-Isolate menu options sequence.

De-Isolate Zone (Sensors Only)---Previously isolated sensors (detectors) in a selected zone may be de-isolated so they can respond to alarms. Proceed as follows:

1. Select the "De-Isolate Zone" option from the menu. The display will respond with the following message:

Zone no.:

(0=none, Yes=all)

2. Enter the number of the required zone and press **YES/ENTER**. The AUTOCALL TFX-500M/800M control panel will pause briefly and then display: **de-isolate successful**

The ZONE TROUBLE yellow LED will go out, and the internal buzzer will stop sounding, if no further zones are isolated. The LCD will return to the "De-Isolate Zone (sensors only)" display, allowing a further zone to be enabled.

If a non-existent zone number is entered, the display will respond with the following message: **Point(s) not found**

If an attempt is made to de-isolate a zone which is already de-isolated, the display will respond with the following message: **Point(s) already de-isolated**

If a printer is connected and on-line, each zone enabled will be logged in the following format:

POINT ENABLED 3rd Floor 12:44:00 23 Jan 90
Non Addressable Pnt. Zone 1

In this example, Zone 1 [all points] has been enabled.

De-Isolate Point (Communication Circuits Only) --- Previously isolated individual devices specified by their addresses may be de-isolated. Proceed as follows:

1. Select the "De-Isolate Point" option from the menu. The display will respond with the following message:

**Loop: A
(Y/N)?**

2. If the device to be de-isolated is on Loop A, press **YES/ENTER**. Go to Step 8 and proceed.
3. If the required device is NOT on Loop A, press **NO/DELETE**. The display will respond with the following message: **Loop: B (Y/N)?**
4. If the device to be de-isolated is on Loop B, press **NO/DELETE**. Go to Step 8 and proceed.
5. If the required device is NOT on Loop B, press **NO/DELETE**. Continue until the correct loop is chosen. The display will respond with the following message: **Loop: A 1 (Y/N)?**
6. If it is required to de-isolate the SAME numbered point on ALL loops, press **YES/ENTER**. Go to Step 8 and proceed.
7. If a mistake is made, press **NO/DELETE**. The display will return to that shown in Step 1 above.
8. Once the correct loop has been chosen, the display will respond with the following message:

**Point no.:
(0=none, Yes=all)**

9. Enter the address of the required device and press **YES/ENTER**. The AUTOCALL TFX-500M/800M panel will pause briefly and then display: **de-isolate successful**

The ZONE TROUBLE yellow LED will go out, and the internal buzzer will stop sounding, if no further points are isolated. The LCD will return to the "De-Isolate Point (addr. loop only)" display, allowing a further point to be de-isolated.

If a non-existent address is entered, the display will respond with the following message: **Point(s) not found**

If an attempt is made to de-isolate a device which is already de-isolated, the display will respond with the following message: **Point(s) already de-isolated**

If a printer is connected and on-line, each point de-isolated will be logged in the following format for Loop A, point 16:

POINT ENABLED 3rd Floor Hall 12:54:00 23 Jan 90
"Point Label text" Zone 1 A16

In this example, Point A16 in Zone 1 has been de-isolated.

3.9. Open VFP (Open Virtual Front Panel)

The "Open VFP," open virtual front panel, menu option is available only to TFXnet network systems. This option allows any network panel to act as the front panel for any other network front panel. For example, if you are operating network panel number 4, you may open a virtual front panel to network panel number 6 as follows:

1. Select the "Open VFP?" menu option) and press **YES/ENTER**. The display will respond:
VFP into Panel: ____
2. Enter the number of the network panel that you wish to operate; for example **6**, and press **YES/ENTER**.
3. You may now log on to Virtual Front Panel #6.
4. After you have completed the operations you wish at VFP #6, press **QUIT** the required number of times to return to the main menu (at panel number 4).

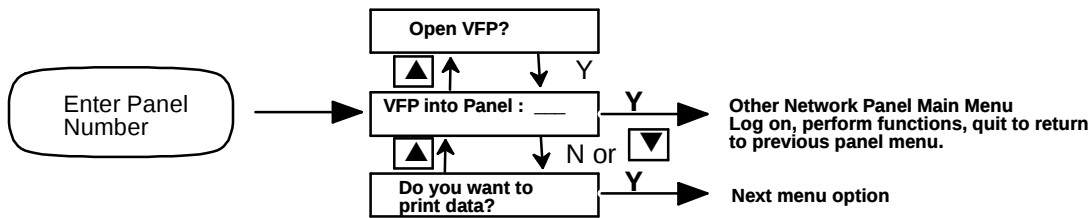


Figure 3-9 Open VFP (Virtual Front Panel), available only on TFXnet network systems.

3.10. Print Data Menu

When selected, the options in this menu allow the contents of the Event Log, or the results of a Solo Test, to be printed.

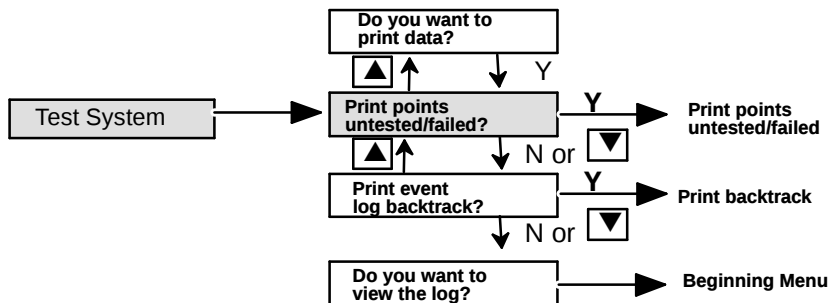


Figure 3-10 Print Data menu options sequence.

Select the "Print Data" option from the Main Menu. The menu options shown in Figure 3-10 sequence will be displayed.

Print Solo Test Points Not Tested/Failed---A printout may be obtained, consisting of all points missed during a solo test, or which failed to respond correctly.

NOTE: Do not wait for a long period of time after solo test termination before initiating the Print Solo Test Points Not Tested/Failed, otherwise some of the log may have been cleared.

Proceed as follows:

Select the "Print points untested/failed" option from the Print Data menu. The display will respond with the following message:

Zone no.:

(0=none, Yes=All)

Enter the number of the required zone and press **YES/ENTER**. The printer will produce a list of all points for which no response was detected during the previous solo test of the selected zone(s), or were found to be faulty, together with any available parameters.

The AUTOCALL TFX-500M/800M control panel display will respond with the following message: **Print initiated**

TEST STARTED "Zone label text" 4 13:55:06 30 JAN 90									
Non Addressable Pnt. Zone 4									
POINT TESTED "Zone label text" Zone 04 A14									
TEST FINISHED All Zones 14:34:09 30 JAN 90									
Non Addressable Pnt.									
Zone 04 Point(s) untested/failed									
Address	Dev.	Con.	Id.	LT.	Av	Inst.	Cnfm.	Status	
Zone 4	A6	34	7.6	11.2	7.1mA	Norm	Norm		

The first three entries above will be produced when (1) the solo test is initiated, (2) when each point is tested, and (3) when the solo test is concluded, respectively performed. These entries will therefore already be on the printer before the print option is selected. The entries in the summary table contain the following parameters:

Table 3-2 Printer message parameters and abbreviations.

Abbreviation	Parameter
Address	Zone, loop, and point number
Dev	Device type code number
Con	Current condition in mA
Id	Identity current in mA
LT. Av.	Long term average current in mA
Inst	Instantaneous point status (Norm, Fault, Alarm, etc.)
Cnfm.	Confirmed point status

Print Event Log Backtrack --- A printout of all (or part) of the Event Log may be obtained. Proceed as follows:

1. Select the "Print Event Log Backtrack" option from the Print Data menu. The display will respond with the following message: **Enter No. events**
2. Enter the number of events required for printing (for example, 20), and press **YES/ENTER**. The display will respond with the following message: **Print initiated**
3. The AUTOCALL TFX-500M/800M control panel will print the (20) most recent events in the log, in the form shown below:

EVENT LOG BACKTRACK									
FIRE EVACUATE Factory 11:57:10:30 30 JAN 90									
Ceiling Rose Zone 09 A 1									
SYSTEM SILENCE System Zone 11:57:24:00 30 JAN 90									
Non-Addressable Pnt. Zone 00 LB0 SO2									
SYSTEM RESET All Zones 11:57:48:32 30JAN 90									
Non Addressable Pnt. MP									

4. For addressable points, the information logged is as follows: event message, location, time and date, point description, zone number, loop number, point number. For non-addressable points, the information logged is as follows: event message, zone number, time and date, location, point type/number. The MAXIMUM number of events that the log can hold is 150. Asking for more than this number will cause the AUTOCALL TFX-500M/800M control panel to display: **invalid,try again**
5. The printout will only contain events appropriate to the access level of the user. If there are fewer events in the log than the number requested, the AUTOCALL TFX-500M/800M control panel will print the entire log. Events followed by the letter 'R' have been recycled following an event log overflow.

Section 4.

Routine Checks

THE SYSTEM SHOULD BE PERIODICALLY TESTED ACCORDING TO INSTRUCTIONS GIVEN BY THE AUTHORITY HAVING JURISDICTION AND BY APPLICABLE NFPA AND LOCAL CODES.

In order to comply with the requirements of local and national fire codes, the installation must be checked on a regular basis, by responsible personnel, to confirm that the AUTOCALL TFX-500M/800M control panel and all ancillary devices, are operating correctly. Routine checks are described in the following paragraphs.

Daily Checks

1. Make sure that the front panel of the AUTOCALL TFX-500M/800M is indicating a normal condition (that is, no ALARM or TROUBLE LEDs are lit, and the LCD is displaying the date and time). If the panel is not indicating a normal condition, record the condition in the log book, and take any necessary action.
2. Check that any fault recorded on the previous day has received attention.

Periodic System Checks--The system can be configured to display a warning message accompanied by an audible alert, when the system test is due. This feature must be configured by an authorized and trained technician.

1. Remove the key from the keyswitch and clean the front panel of the AUTOCALL TFX-500M/800M with a suitable cleaner.
2. Using the Solo Test function (see "Test System Menu Options," Section 3.6.), check the operation of at least one zone. (For example, if the system consists of more than 13 zones, then more than one zone should be tested to ensure that each zone is checked at least once every 13 weeks.)

WARNING: WARN ALL PERSONNEL THAT THE INDICATING APPLIANCES ARE ABOUT TO BE TESTED.

3. Set one device (either a pullstation or a detector) from one zone into alarm and check that the system responds as described in Section 1.1.
4. Check the condition of the printout on any printers attached to the system, and replace the ribbon if the printout is becoming faint.
5. Make sure that the printer has an adequate supply of paper.

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