MAAP-X Local Operating Console Quick Reference Guide

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Document Information

Identification

MAAP-X Local Operating Console Quick Reference Guide

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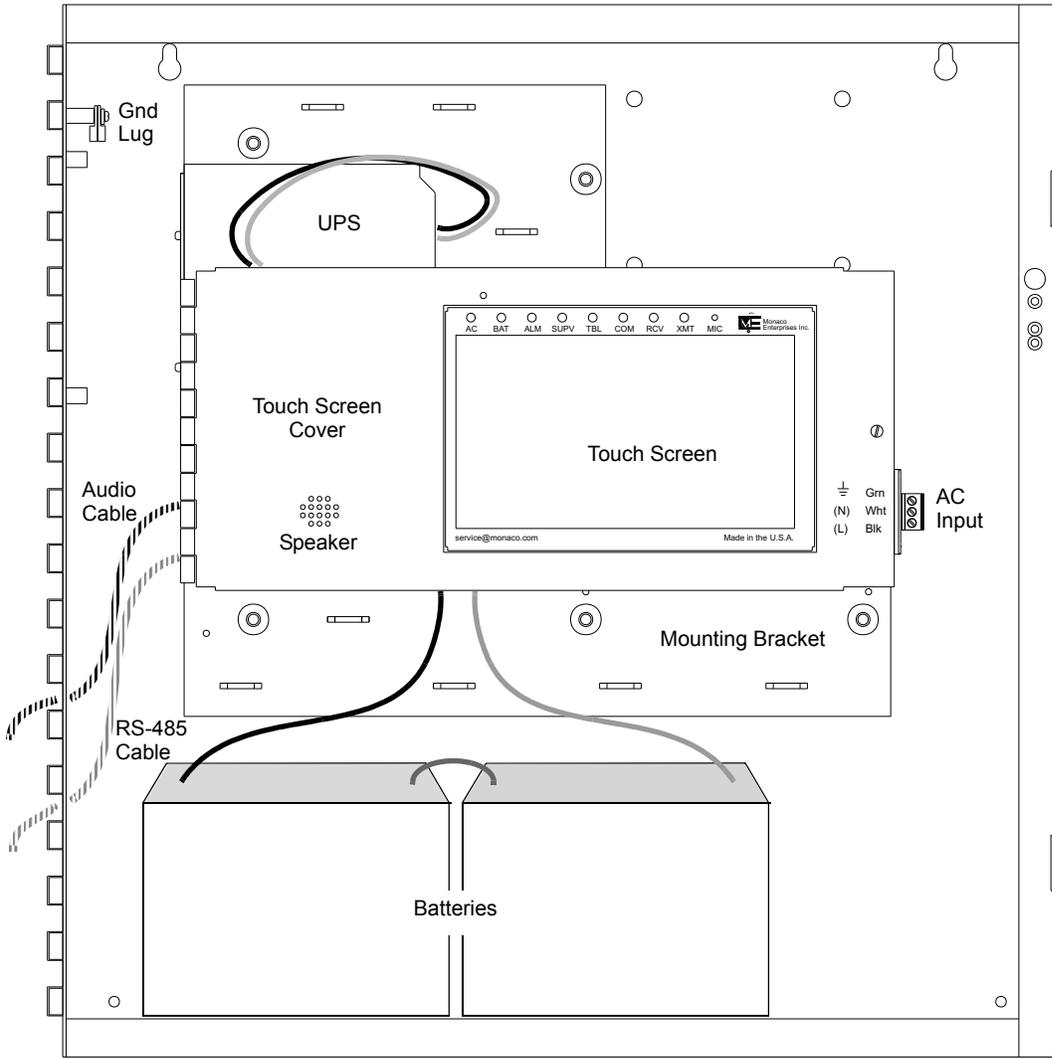
Contents

Notes

About this Document

This document gives a summarized view of touch screen operation, configuration, trouble-shooting, and wiring connections. Detailed information is in the "MAAP-X Local Operating Console IOM Manual," P/N 001-578-00.
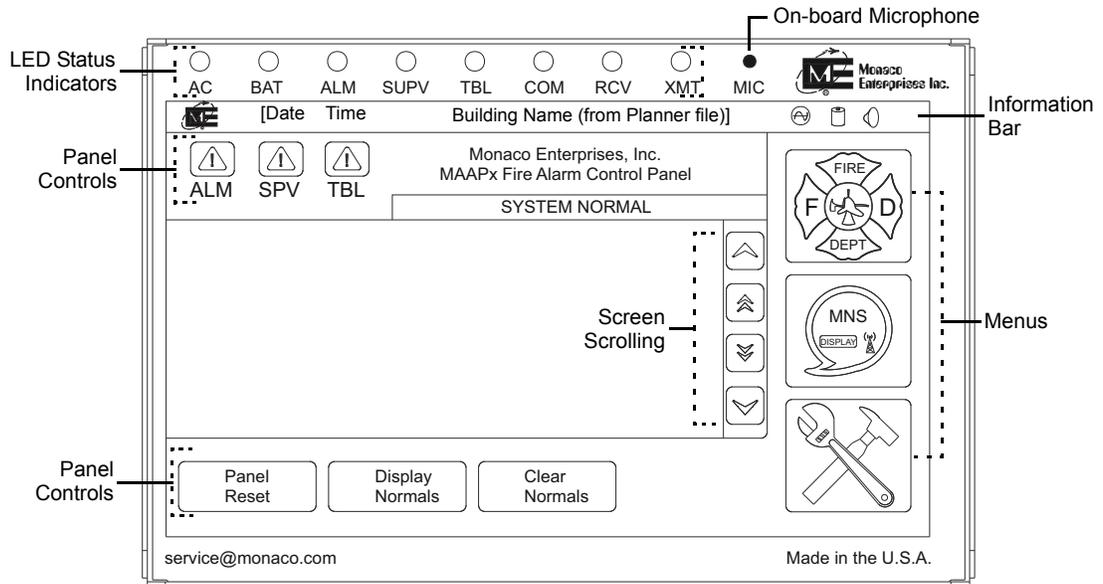

▼ **Important!** *Place this document in the local operating console (LOC) enclosure, behind the batteries, as a reference for MAAP-X/LOC users.*

LOC Components

Touch Screen Indicators and Controls

On-board Microphone

LED Status Indicators

Panel Controls

Panel Controls

Information Bar

Menus

Screen Scrolling

▼**Important!** *LOC configuration options chosen in the MAAP-X Planner software determine which panel controls and menus are available and displayed on each touch screen. This guide shows the LOC with all panel controls and menu options enabled.*

LED Status Indicators

These are the same for all LOCs connected to the same MAAP-X.

- **AC**
  - Lights green when panel is powered by AC.
  - Briefly orange, then off for AC drops below:
    90 VAC for rated 100 VAC
    102 VAC for rated 120 VAC
    204 VAC for rated 240 VAC
- **BAT**
  - Blinks red when battery discharges to about 20.4 VDC volts (AC disconnected).
  - Lights red when the panel is operating on battery power.
- **ALM**
  - Blinks red when an alarm exists that has not been silenced. Lights solid once **Alarm Silence** button (touch-screen panel control) is touched.
  - Lights red when an alarm occurs on a device connected to the MAAP-X CPU PCB or ADC installed in the AAC II; it does not turn off until the MAAP-X has been reset by touching **Panel Reset**.

- **SUPV**
  - Blinks red when a supervisory alarm condition exists that has not been silenced. Lights solid once **Suprvsry Silence** button (touch-screen panel control) is touched.
  - Lights red when a supervisory notification occurs on a device connected to the MAAP-X CPU PCB or ADC installed in the AAC II that has been programmed as supervisory; it does not turn off until the MAAP-X has been reset by touching **Panel Reset**.
- **TBL**
  - Blinks yellow when a trouble exists that has not been silenced. Lights solid once the **Trouble Silence** button (touch-screen panel control) is touched.
  - Lights yellow when any component, circuit, or connected device reports a trouble condition; it turns off when all trouble conditions have been corrected.
- **COM**   Lights solid green when the panel is receiving a valid encoded signal from the Central Receiving System. If the panel does not receive a signal from Central for 200 seconds, the COM LED turns off.
- **RCV**   Blinks green when the MAAP-X is receiving a valid encoded RF signal from Central or another transceiver.
- **XMT**   Blinks green when the MAAP-X is transmitting a message.

MIC

This is an on-board microphone. When enabled, a user can speak into the small aperture for live voice through the mass notification system (MNS).
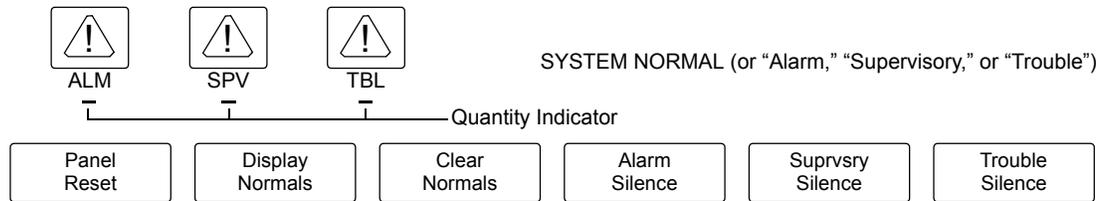
Information Bar

- **Date**   Current date.
- **Time**   Current time.
- **Building Name**   Information transferred from the Planner file.
- Symbols:

AC Power Status	Battery Status	MNS Status
Green = AC Connected	Green = Connected, Charged 1/2 Green = Connected, Charging	MNS Enabled
Red = AC Disconnected	Gray = Disconnected	MNS Activated
		MNS Disabled

Panel Controls

⚠	⚠	⚠
ALM	SPV	TBL

SYSTEM NORMAL (or "Alarm," "Supervisory," or "Trouble")

Quantity Indicator

Panel Reset	Display Normals	Clear Normals	Alarm Silence	Suprvsry Silence	Trouble Silence

- **ALM (Alarm Indicator)**   Displays quantity of active alarms. Indicator flashes when an alarm exists that has not been silenced and turns solid once **Alarm Silence** is touched. Touching the indicator displays a list of current alarms in the display field.

- **SPV (Supervisory Indicator)**   Displays quantity of active supervisory alarms. Indicator flashes when a supervisory alarm exists that has not been silenced and turns solid once **Suprvsry Silence** is touched. Touching the indicator displays a list of current supervisory alarms in the display field.

- **TBL (Trouble Indicator)**   Displays quantity of active troubles. Indicator flashes when a trouble exists that has not been silenced and turns solid once **Trouble Silence** is touched. Touching the indicator displays a list of current troubles in the display field.

- **SYSTEM NORMAL**   No troubles or alarms indicated.

- **Panel Reset**   Resets IDCs and addressable devices to try and clear alarms from the MAAP-X, turns off outputs for cleared alarms, and sends an end-of-alarm message to Central.

These control buttons appear in the lower screen area based on panel condition:
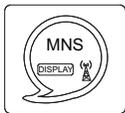
- **Display Normals**   Touch to display a list of recently returned to normal alarms and troubles in the display field.

- **Clear Normals**   Touch to clear the list of normals currently showing in the display field.

- **Alarm Silence**   Acknowledges an alarm condition and turns off notification appliances that are programmed as silenceable.

- **Suprvsry Silence**   Same as alarm silence but for supervisory alarms.

- **Trouble Silence**   Acknowledges trouble conditions and silences the panel on-board speaker and any addressable devices assigned as General Trouble. Conventional on-board relays assigned to General Trouble are non-silenceable.

Menus

■ **Information Menu**   Touch to access submenus:
   – Manual fire alarm button
   – Survey—Panel information, browse devices, meters, versions
   – History—Touch to list the 500 most recent events: alarms, troubles, early warnings, maintenance alerts, etc.; options offer more information

■ **Mass Notification System Menu**   Touch to access MNS submenu to play pre-recorded messages and activate live-voice.

■ **Maintenance Menu**   Password is required. Touch to access submenus:
   – Drill Test—Turns on drill-test-enabled, fire-defined NACs, and fire MNS messages only (not MNS NACs). Touching again ends the test.
   – Walk Test—Places panel in walk-test mode, to test alarms without transmitting ZRPN alarm alerts to Central. It momentarily sounds the NAC, indicating the panel received the alarm from the device being tested.

     If point reporting is enabled, point-reporting addresses are sent to Central and logged under Unit History as Walktest without generating alerts.
   – Enable/Disable—Touch to access submenu for enabling/disabling devices and zones or transmitting status changes of devices and zones. (Devices can be enabled/disabled in the Planner software.)
   – Setup—Touch to access submenu for setting panel date and time, performing a key-up test, or clearing the history database.

Scrolling

- ■ Touch to scroll display field up a single line.

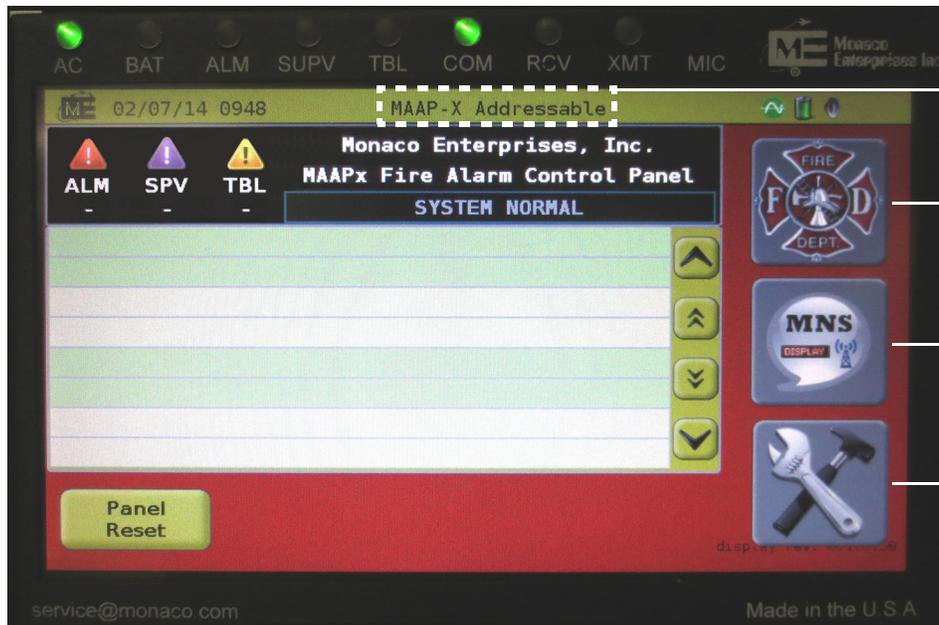- ■ Touch to scroll display field up a full page.

- ■ Touch to scroll display field down a full page.

- ■ Touch to scroll display field down a single line.

Main (Home) Screen

This LOC screen shows the MAAP-X system in normal status.

Note
LOC, with its ID#, appears here.

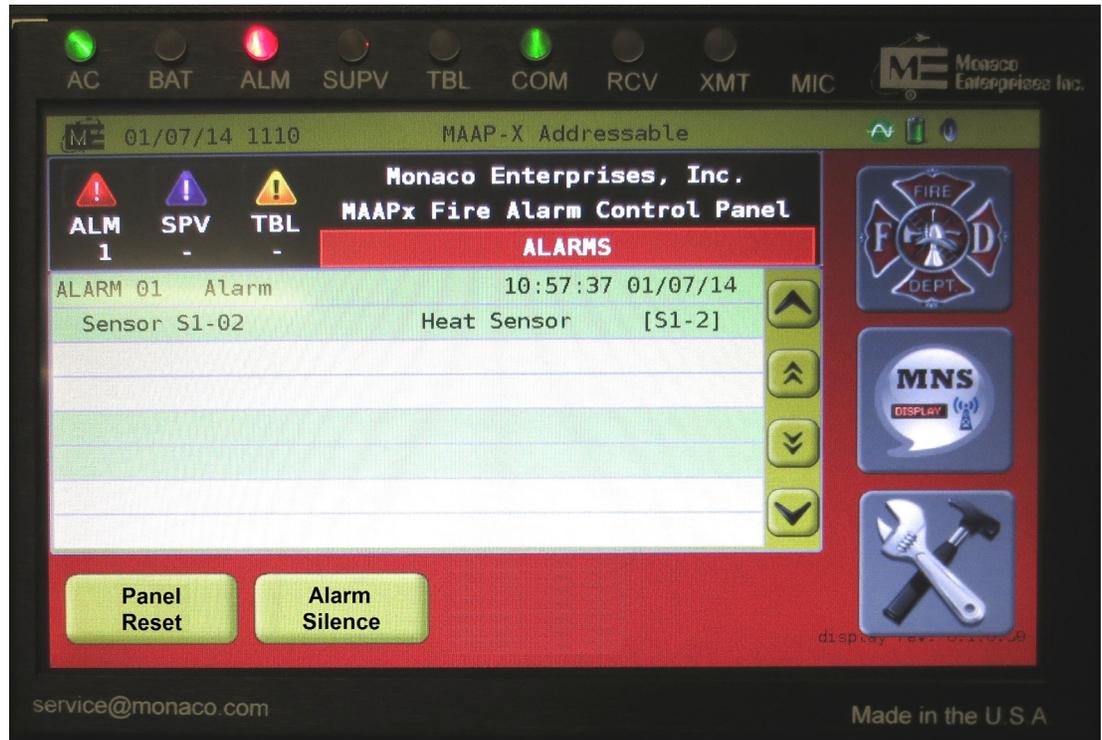**Access:**
Information Screens

MNS Operation

Configuration Screens

Identifying a Device in Alarm

This is an example of a touch screen indicating an alarm at LOC and MAAP-X.

Alarm Information

Type

- General
- Addressable device
- Addressable sensor, early warning
- Waterflow

- Positive alarm sequence
- Master box
- Detector verification

LED **ALM** flashing

Touch Screen Message   Alarm identification, component description, date-time

LOC Speaker   Off, unless programmed to play an alarm MNS message

Assigned NACs   Silenceable or non-silenceable

Message to Central   Alarm, zone reporting position number (ZRPN), description

Processing a Panel Alarm

To process a panel alarm

1 Based on touch-screen message and alarm source identification, investigate the alarm situation.

2 When the situation is corrected or being addressed by responders, touch the **Alarm Silence** button on the touch screen. NAC and relay outputs defined as fire with silence-enable selected will silence.

When the alarm situation has been corrected:

- MAAP-X will normalize automatically if configured for autoreset.
- MAAP-X requires a manual reset (touch the **Panel Reset** button) if autoreset is not configured. *If enabled in the Planner, you can reset the MAAP-X from the LOC.*
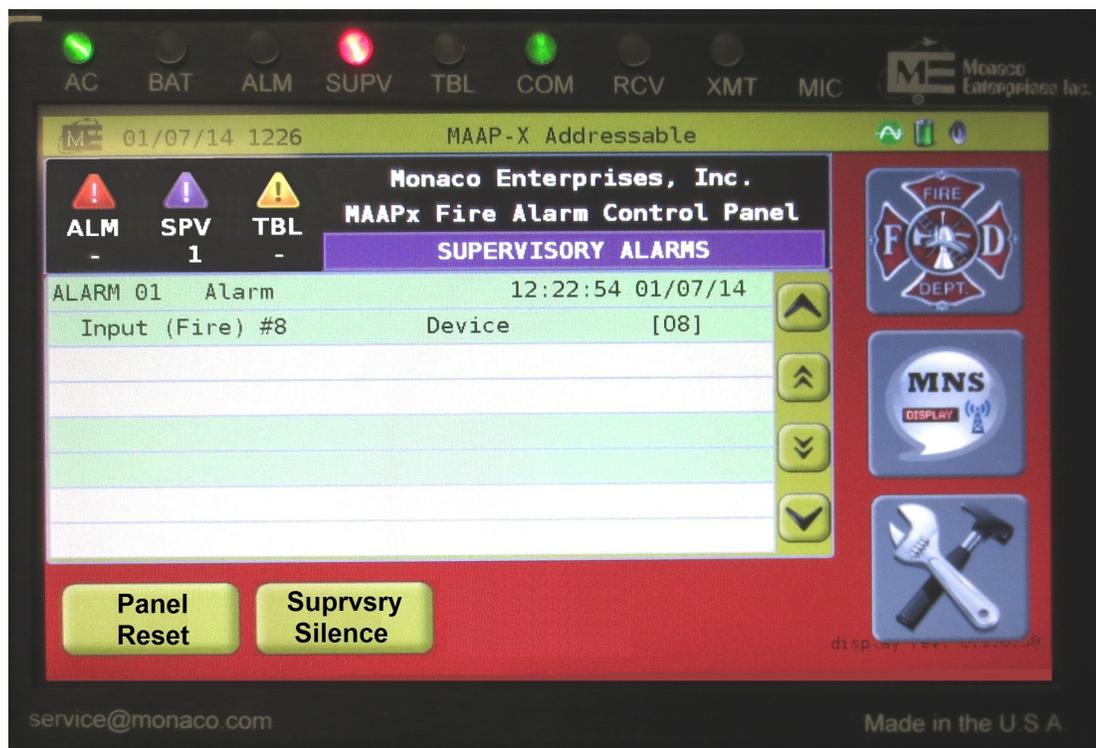
At reset completion, the **Display Normals** and **Clear Normals** buttons appear next to the **Panel Reset** button.

- Touching **Display Normals** indicates if the alarm source has actually returned to normal.
- Touching and confirming **Clear Normals** clears that list and both "normals" buttons.

Identifying a Device in Supervisory Alarm

Supervisory alarms are unique in National Fire Protection Agency (NFPA) standards. They require a visit to the facility but not a fire response.

This is an example of a touch screen indicating a supervisory alarm.

Alarm Information

Type   Supervisory—auto-reset possible

LED   **SUPV** flashing

Touch Screen Message   Alarm identification, component description, date-time

LOC Speaker   Beeps on and off

Assigned NACs   Typically off but can be assigned

Message to Central   Alarm, zone reporting position number (ZRPN), description

Processing a Panel Supervisory Alarm

Things to remember in a supervisory alarm scenario:

- MAAP-X might or might not be configured for autoreset; the touch screen does not indicate which.
- The panel might or might not be configured to sound general alarm(s) in addition to the panel beeper.

To process a supervisory alarm

1 Based on touch-screen message and alarm source identification, investigate the alarm situation.

2 When the situation is corrected or being addressed by responders, touch the **Suprvsry Silence** button on the touch screen.

   NAC and relay outputs defined as fire with silence-enable selected will silence.

When the supervisory alarm situation has been corrected:

- MAAP-X will normalize automatically if configured for autoreset.
- MAAP-X requires a manual reset (touch the **Panel Reset** button) if autoreset is not configured. *If enabled in the Planner, you can reset the MAAP-X from the LOC.*
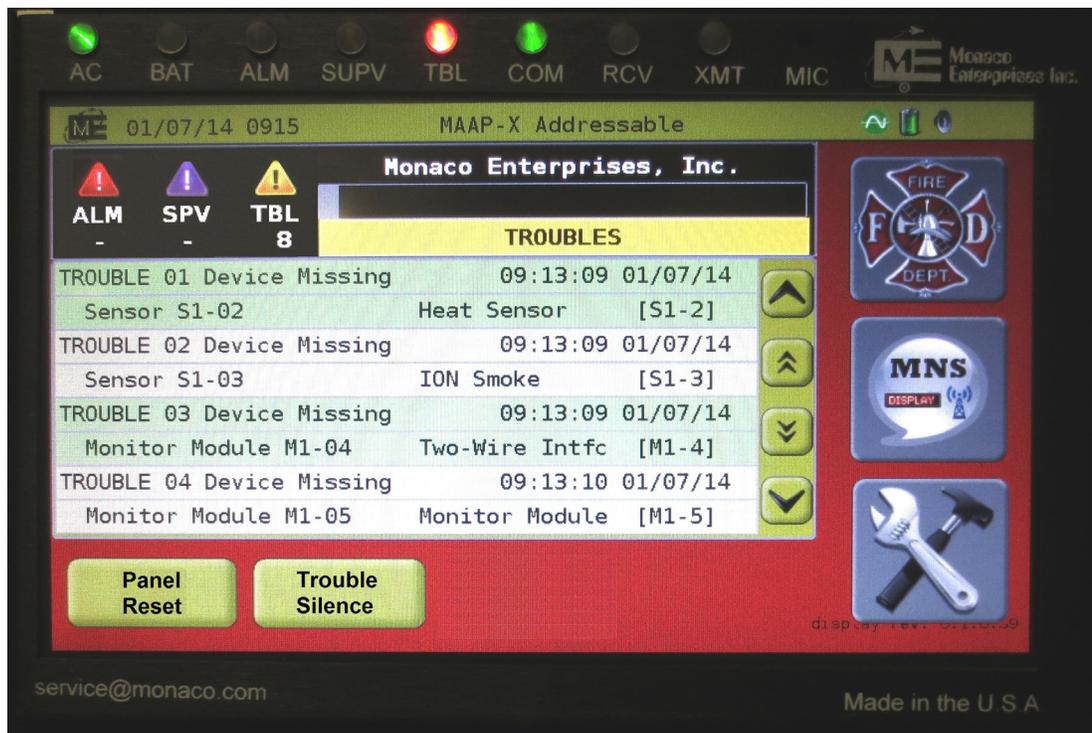
At reset completion, the **Display Normals** and **Clear Normals** buttons appear next to the **Panel Reset** button.

- Touching **Display Normals** indicates if the alarm source has actually returned to normal.
- Touching and confirming **Clear Normals** clears that list and both "normals" buttons.

Identifying a Device in Trouble

This is an example of a touch screen indicating four troubles.

Notification Information

Type   Trouble

LED   **TBL** flashing

Touch Screen Message   Trouble identification, component description, date-time

LOC Speaker   On steady

Message to Central   Trouble, zone reporting position number (ZRPN), description

For a full list of troubles, see the "Local Operating Console IOM Manual," P/N 001-578-00.

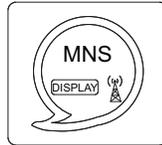## Processing a Panel Trouble

To process a panel trouble

1   Touch the **Trouble Silence** button on the touch-screen.

2   Based on touch-screen message and trouble source identification, investigate the trouble situation.

When the trouble situation has been corrected, MAAP-X will normalize automatically and the **Display Normals** and **Clear Normals** buttons appear next to the **Panel Reset** button.
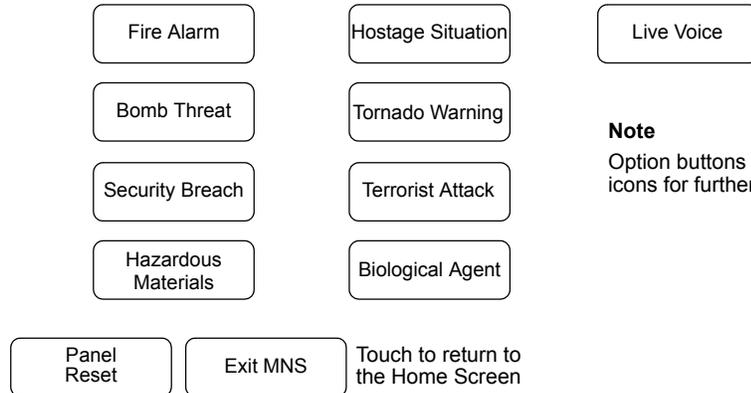
- Touching **Display Normals** indicates if the trouble source has actually returned to normal.
- Touching and confirming **Clear Normals** clears that list and both "normals" buttons.

MNS Operation

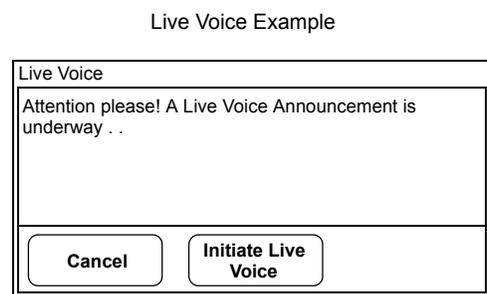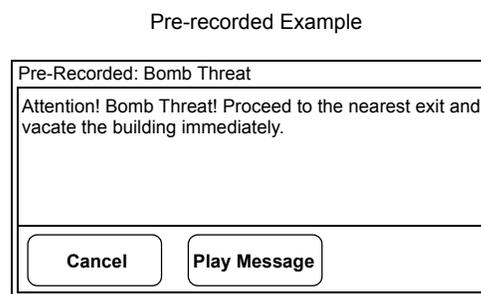Touching the MNS Menu symbol presents available options (examples only are shown here):

| Fire Alarm | Hostage Situation | Live Voice |

| Bomb Threat | Tornado Warning |

Note
Option buttons include graphic
icons for further identification.

| Security Breach | Terrorist Attack |

| Hazardous Materials | Biological Agent |

| Panel Reset | Exit MNS | Touch to return to the Home Screen |

1 Touch the button to choose an option.

Important! *If you have a pushbutton microphone at the LOC—must be enabled in the Planner under Console Definition/MNS View—you can activate live voice immediately by pushing the button; you do not have to initiate live voice first.*

2 A window displays the text of the pre-recorded message, or for **Live Voice**, the text of a pre-recorded introduction.

Pre-recorded Example   Live Voice Example

Pre-Recorded: Bomb Threat
Attention! Bomb Threat! Proceed to the nearest exit and vacate the building immediately.

| **Cancel** | **Play Message** |

Live Voice
Attention please! A Live Voice Announcement is underway . .

| **Cancel** | **Initiate Live Voice** |

3 Touch **Cancel** or **Play Message** button; for **Live Voice** using the panel **MIC**, touch **Initiate Live Voice** and speak into the **MIC** aperture.
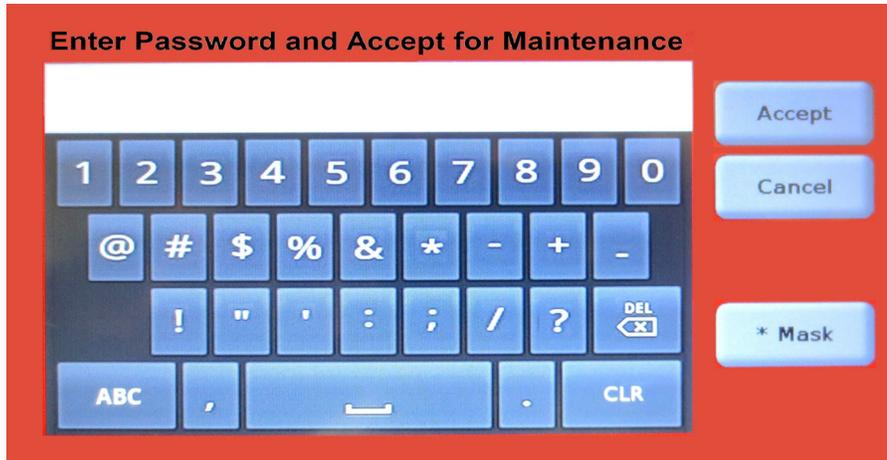
▼**Notes**
1. Too long of a delay in entering data or choosing options causes the system to time out and return to the home screen.
2. If enabled in the Planner, the touch screen speaker will play the MNS message.

Maintenance Menus Operation

Touching the Maintenance Menu symbol displays the password screen.

Enter Password and Accept for Maintenance

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

Accept

Cancel

* Mask

@	#	$	%	&	*	-	+	-
!	"	'	:	;	/	?	DEL
ABC	,		.	CLR

Enter the password by touching the keys on the keypad, then touch the **Accept** button. The "*Mask" button displays the password in asterisk, rather than actual, characters.

If the password is correct the screen displays these options:

| Home | Drill Test* | Walk Test* | Setup |

Touch to return to the Home Screen

Touching this button displays a confirmation screen, warning that all NACs will activate, triggering an evacuation. Touch either "Cancel" or "Begin Drill Test."

Touching this button displays a confirmation screen, warning that the panel's fire alarm function will be suspended. Touch either "Cancel" or "Begin Walk Test."

*Available during a trouble, <u>not</u> available during an alarm.

Main Menu
Return to Maintenance start screen.

Set Time/Date
MM/DD/YY   HH/MM

Key Radio 10s
No options or preliminaries; radio keys for 10 seconds on touch. Panel beeps once per second during this test.

Clear History
Confirmation screen displays (short time-out!)

Play STIPA Msg**
Confirmation screen displays (short time-out!)

| Enable/Disable |

Note   This option is a detailed function covered in "MAAP-X Local Operating Console IOM Manual," P/N 001-578-00.

Note
Too long of a delay in entering data or choosing options causes the system to time out and return to the home screen.

**Note This is a file of tones. A technician with a STIPA-calibrated meter stands or sits near the speakers and takes intelligibility measurements.
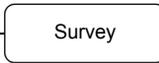
Information Menu Functions

Touching the Information Menu symbol displays these options:

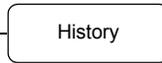| Home	Survey	History

Home

Touch to return to the Home Screen

Appears if set in the Operating Consoles section of the Planner. Touch to activate a pre-recorded fire evacuation message.

Home

Browse Devices
1. Choose conventional or an addressable. Touch Continue > >
2. Touch a button on the right, or touch an individual device showing on the screen.
3. Touching Main Menu takes you to the start screen for "Browse Devices."

Meters
Shows current status of AC and battery power sources.

Versions
MAAP-X firmware versions

Main Menu

Alarms Only

Troubles Only

Pre Alarms

Maint Warning

System Events

MNS History Only

Sort Old to New

After choosing a filter button, touch "All History" to return to the unfiltered screen. Touch "Main Menu" to return to the Information Menu screen. "Sort" is an old-to-new, new-to-old toggle.

About Filtering History...

You can filter down one level by the touch screen buttons on the right of the screen. History can also be filtered by an event's system identification by touching a specific entry, then (optionally) any of the filter buttons pertinent to the event. (If you are filtering troubles, touching the Alarms Only button retrieves no further information.)

▼**Note** *Too long of a delay in entering data or choosing options causes the system to time out and return to the home screen.*
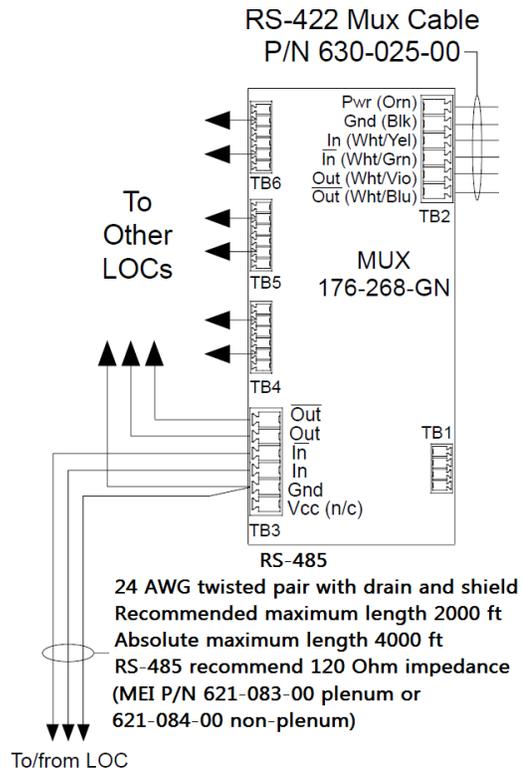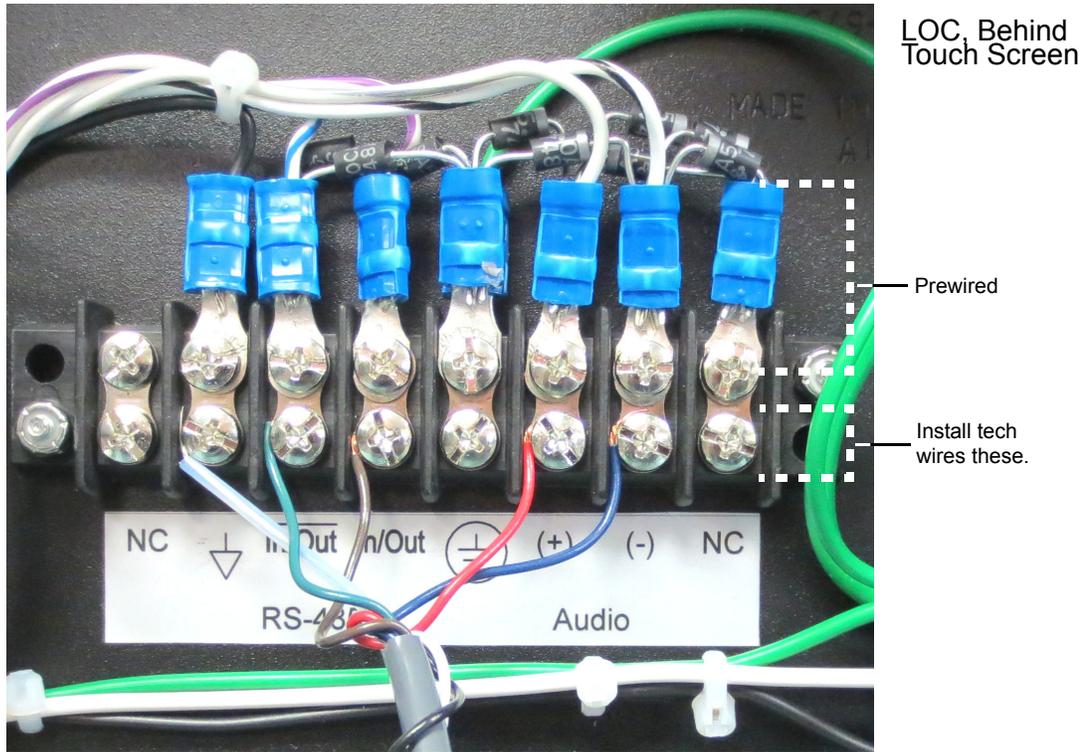
Troubleshooting

See the "Local Operating Console IOM Manual," P/N 001-578-00.

LOC Wiring

These are the RS-485 data line and the audio line connections.

LOC, Behind
Touch Screen

Prewired

Install tech
wires these.

NC ⏚ In/Out In/Out ⏚ (+) (-) NC

RS-485   Audio

RS-422 Mux Cable
P/N 630-025-00

Pwr (Orn)
Gnd (Blk)
In (Wht/Yel)
In (Wht/Grn)
Out (Wht/Vio)
Out (Wht/Blu)

TB6   TB2

To
Other
LOCs

TB5

MUX
176-268-GN

TB4

Out
Out
In
In
Gnd
Vcc (n/c)

TB1

TB3

RS-485

24 AWG twisted pair with drain and shield
Recommended maximum length 2000 ft
Absolute maximum length 4000 ft
RS-485 recommend 120 Ohm impedance
(MEI P/N 621-083-00 plenum or
621-084-00 non-plenum)

To/from LOC

Configuration Summary

This diagram summarizes the windows under Panel Configuration/Operating Consoles in the MAP-X Planner.