

ELK M1ToGo



User Interface Software

Table of Contents

Features & Specifications	4
General Setup	5
Control Programming Notes	5
First Time Start Up	6
Adding a M1 Profile (Local Option)	6
Adding a M1 Profile (Manual Option)	7
Editing Profiles	8
Adding and Removing Profiles	8
Profile Settings	9
Profile Connection Options	9
Operating Instructions.....	11
Logging In.....	11
Home	11
Security	12
Lighting	15
Climate.....	16
Tasks	18
Outputs.....	19
Custom Settings	20

Features and Specifications

APPLICATION:

ELK M1ToGo User Interface Software runs on virtually any personal computer with the Microsoft .NET Framework 4.0. It provides a powerful graphic user interface to the M1 system. It allows the control of many aspects of the M1 system including security, lighting, climate, tasks, outputs, etc. ELK M1ToGo User Interface Software connects to the control through an Ethernet network. Multiple connections can be established through the Ethernet network simultaneously. Ethernet connectivity requires the ELK-M1XEP Ethernet Interface to be installed and properly configured on the system.

FEATURES:

- ❖ Powerful Graphical User Interface:
 - Security:
 - Virtual Keypad allows arming/disarming, zone bypassing and chime activation and displays system arm/alarm/trouble messages
 - View individual Zone status
 - Receive and view System Event Log
 - Lighting:
 - Displays name and current status of defined lights
 - Allows light to be turned on, off or set to intermediate level (on dimmable lights)
 - Climate:
 - Displays current temperature and settings of interfaced thermostats and allows control of thermostat settings
 - Displays name and current temperature of any keypad and temperature probes
 - Outputs:
 - Displays name and current status of defined outputs
 - Allows output to be turned on and off
 - Tasks:
 - Displays name of defined tasks
 - Allows tasks to be activated
 - Custom Settings:
 - Displays name and current setting of defined custom settings
 - Allows custom settings to be changed
- ❖ Synchronize Option Simplifies Page Setup
- ❖ Up to 30 Simultaneous Connections Over the Local Network

SYSTEM REQUIREMENTS:

- ❖ Supported Operating Systems: Windows 7, Windows Vista, Windows XP Professional or Home edition
- ❖ Microsoft .NET 4.0 Framework
- ❖ Total Disk Space Requirements: 5 MB
- ❖ Memory Requirements: Minimum 512 MB RAM
- ❖ Screen Resolution: 800 x 480 or higher
- ❖ M1 system with firmware version 4.3.8 or later

General Setup

Control Programming Notes

In order for ELK M1ToGo to successfully connect to the control and to display valid information on the User Interface pages, certain settings must be properly programmed in the control.

The M1XEP Ethernet Interface must be connected to the main serial port (Port 0) of the M1/EZ8 control and properly configured. It is recommended that the M1XEP be configured with a static IP address if the network permits, this will ensure that the IP address does not change. If the M1XEP uses DHCP the router/DHCP server should be configured to always provide the same address to the M1XEP.

If you will not be using ELK M1ToGo outside of your Local Area Network (LAN) then you may want to ensure that the M1XEP's non-secure port is enabled. Non-secure connections are faster, but they are not encrypted and should not be used if you will be connecting outside of your LAN. For more information on how to configure these settings, please refer to the M1XEP Installation Manual.

ELK M1ToGo generates the User Interface pages based on the serial data it receives from the M1/EZ8 control. To ensure that all the necessary serial information is being transmitted, verify that the Serial Port 0 baud rate is set to 115200. Also, Global options G35, G36, G37, G38, G39, and G40 must be enabled or set to YES. These options can be programmed through ElkRP or keypad programming.

From ElkRP

1. Click on "Globals" on the left side of the screen.
2. Click on the "G29-42 (Special)" tab.
3. Set "Serial Port 0 Baud Rate" to 115200.
4. In the "Serial Port 0" box in the center of this screen, place a check mark beside each of the 6 "Transmit..." options.

From the Keypad

1. Press the ELK key, then 9 to access the Installation Programming menu. Press the right arrow key and enter the installer code when prompted.
2. Press 07 to enter the Global System Definitions menu.
3. Enter 34 to view the current baud rate setting. Verify that it is set to 115200.
 - If it is not, change the setting to 115200 by pressing the right arrow and then pressing 9. Press the ELK key after making the change.
4. Press the Up arrow key to view the Global option G35. Verify that this option is set to YES.
 - If it is not, press the ELK key and then 1 to change the setting to YES. Press the ELK key after making the change.
5. Press the up arrow key to view Global option G36. Use the process outlined in step 4 to verify that Global options G35-G40 are all set to YES.

In order for the ELK M1ToGo screens to display the appropriate information, items such as keypads, zones, tasks, lights, outputs, thermostats, and custom settings must be named. Tasks, Lights, and Outputs also require that the "Show" option be enabled. These options must be programmed using ElkRP.

First Time Startup

Upon starting the ELK M1ToGo software for the first time, the “Getting Started” page (Figure 1) will be displayed giving you two setup options.

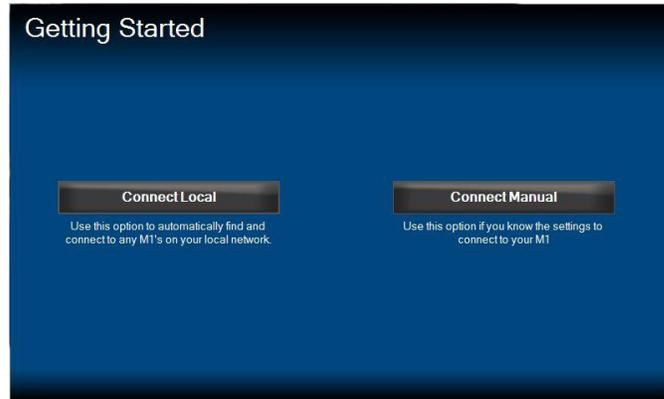


Figure 1. This page will be displayed on startup when you have no saved profiles.

Local – Select this option if:

- You want to quickly find and connect to a system on your LAN
- You do not know the IP Address of your system on your LAN
- You will primarily use this application on a computer that is on your LAN

Manual – Select this option if:

- You know the IP Address/URL for your system
- You plan to use this application on a computer that is not on your LAN
- You have/know the Address to connect to your system from outside of your LAN

Clicking one of these options will take you to a setup screen which will allow you to configure the application to connect to your system.

Adding a M1 Profile (Local Option)

When “Local M1” option is selected, ELK M1ToGo will search the LAN for any systems on the network that it can connect to. If any systems are found, the “New Profile – Local M1” page will be displayed (Figure 2).

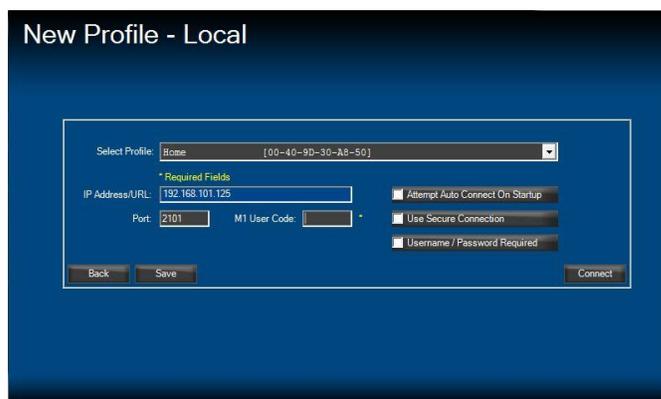


Figure 2. This page allows you to find and connect to local systems.

If you have more than one system on your network, you can use the “Select Profile” dropdown box to select which system you want to connect to.

If the message “No Local XEPs Found” is displayed in the “Select Profile” box, then there are no systems on you LAN that you can connect to, and you will not be able to use this page to make a connection to your system.

After you have selected the system you want to connect to, enter the user code for that system in the “M1 User Code” text box. You will not be able to connect to your system without a valid user code.

Next, select the appropriate connection options from the connection option checkboxes on the right hand side of the screen. For more information on these connection options see “Profile Connection Options” (Page 9).

Finally, before connecting, ensure that the port number in the “Port” field is correct. By default this number is “2101” when making a non-secure connection and “2601” when making a secure connection.

After you have verified that all your settings are correct, you may click the “Connect” button to connect using the new profile.

Adding a M1 Profile (Manual Option)

When “Manual” option is selected, the “New Profile – Manual” page will be displayed (Figure 3).

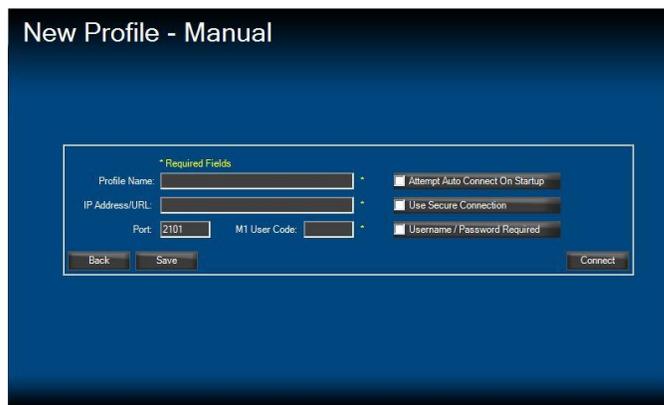
The screenshot shows a web interface titled "New Profile - Manual" on a dark blue background. A white-bordered form contains several input fields and checkboxes. On the left side of the form, there are three required fields: "Profile Name", "IP Address/URL", and "M1 User Code", each with a small asterisk icon. The "Port" field is pre-filled with the value "2101". On the right side, there are three checkboxes: "Attempt Auto Connect On Startup", "Use Secure Connection", and "Username / Password Required". At the bottom of the form, there are three buttons: "Back", "Save", and "Connect".

Figure 3. This Page allows you to connect to a system manually.

There are three required fields that must be filled in order to connect to your system, “Profile Name”, “IP Address/URL”, and “M1 User Code”. You will not be able to connect to your system unless all these fields are filled out correctly. For more information on these fields see “Profile Settings” (Page 9).

After you have completed these fields correctly, select the appropriate connection options from the checkboxes on the right hand side of the screen. For more information on these options see “Profile Connection Options” (Page 9).

Finally, before connecting, ensure that the port number in the “Port” field is correct. By default this number is “2101” when making a non-secure connection and “2601” when making a secure connection.

After you have verified that all your settings are correct you may click the “Connect” button to connect using the new profile.

Editing Profiles

If you need to make a change to a profile (e.g. Change the profile name, change the profile’s IP Address, etc.), you must first navigate to the “Settings” page (Figure 4). From the “Login” page click the “Settings” button.

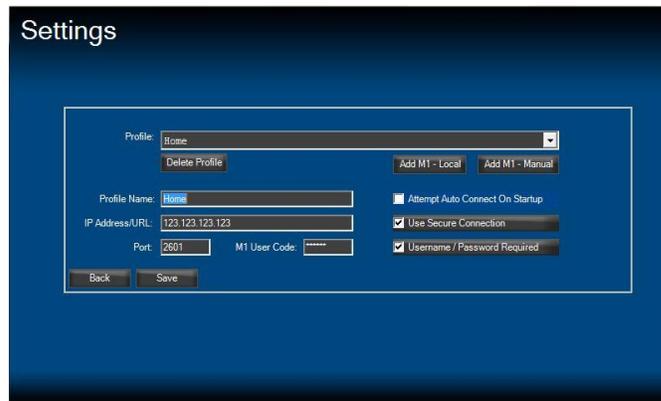


Figure 4. The settings page allows you to edit profile information.

From the “Settings” page, making changes is easy. To change the profile settings information, just change the value in the appropriate profile settings text box. For more information on these settings see “Profile Settings” (page 9). You may change the profile connection options from this page as well. For more information on these options see “Profile Connection Options” (Page 9).

Adding and Removing Profiles

If you need to add or remove a profile, you must first navigate to the “Settings” page (Figure 4 above). From the “Login” page, simply click the “Settings” button.

Deleting a profile: Select the profile you want to remove from the “Profile” dropdown box and click the “Delete Profile” button. This will remove the profile and all its settings permanently. If you delete all of your profiles then you will be taken back to the “Getting Started” page. For more information on the getting started page see “First Time Startup” (Page 6).

Adding a profile: There are two ways to add a new profile, “Add M1 - Local” and “Add M1 - Manual”.

Local –See “Adding a M1 (Local Option)” (Page 6)

Manual –See “Adding a M1 (Manual Option)” (Page 7)

Profile Settings

When adding a new profile, or editing one, there are a few fields that must be entered correctly in order to properly connect to your system.

Profile Name: This field allows you to give this group of connection settings a unique name. If you have multiple systems that you will be connecting to, this name will help you identify which system you are connecting to. [This field is only available for profiles that are created manually]

IP Address/URL: This field is for the address to your system. Either an IP Address or a URL address is a valid entry. If you are connecting through the local network, enter the IP address of the M1XEP. If you are connecting through the Internet or WAN, enter the public IP address or URL

Port: If you are connecting non-securely then the default port is “2101”. If you are connecting securely then the default port is “2601”. These default values will be entered in accordingly for you, but if your system requires a different port you may change this value.

M1 User Code: This is the user code for the system that you are connecting to. A valid user code must be entered here

Profile Connection Options

When adding a new profile, or editing one, there are a few options you may want to select to ensure that you are using the connection type that best suits your needs.

Attempt Auto Connect On Startup – Select this option if:

- You will primarily use this application to connect to a single system
- You do not require a Username/Password for secure connections

If you select this option then ELK M1ToGo will attempt to connect to this profile when the application starts up. Only one profile may have this option set. Selecting this option for one profile will deselect it for all others. Secure connections that require a Username/Password cannot use this option.

Use Secure Connection – Select this option if:

- You would like the added security of SSL encryption when connecting to your system
- You are connecting to your system from outside of your LAN
- You are on a LAN that is open to the public (i.e. an open wireless network)

This option enables the use of SSL (encryption) when connecting to your system. Connections take a little longer to make, but this is the most secure and safe option.

Username/Password Required – Select this option if:

- You have configured your system to require a Username/Password on secure connections
- Selecting this option will disable the option to “Attempt Auto Connect On Startup”.



IMPORTANT: If you are using ELK M1ToGo outside of your LAN, or if your LAN that is open to the public, it is HIGHLY RECOMMENDED that you enable the “Use Secure Connection” option. Failure to do so could leave your system open to attacks.

Operating Instructions

Logging In

When ELK M1ToGo starts up and is not configured to automatically connect, you will be presented with a Login screen (Figure 5).

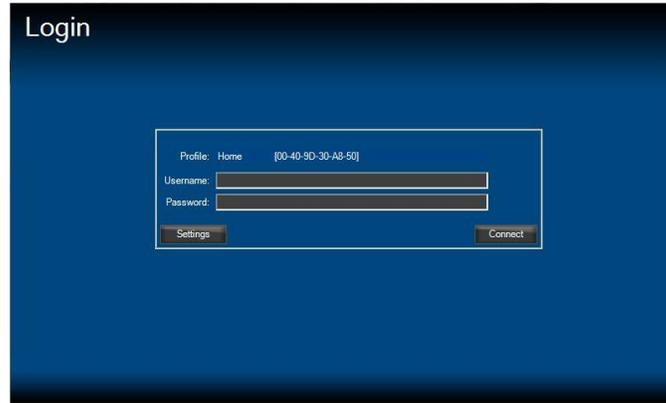


Figure 5. The Login Page

Depending on your settings, the login screen may appear different.

Profile: This field displays the current profile that you will be connecting to. If you have more than one profile saved, then this field will be replaced with a dropdown list, allowing you to select the profile you want to connect to.

Username: If you have selected the “Username/Password Required” connection option, then this field will be enabled and accept the username you setup for your system.

Password: If you have selected the “Username/Password Required” connection option, then this field will be enabled and accept the password you setup for your system.

Once you have selected the profile you want to connect to and entered your username and password (if required), then press the “Connect” button to connect to your system.

If you need to make a change to one of your profiles, or would like to add new profiles, click “Settings”. For more information on the Settings page see “Editing Profiles” (Page 8).

Home

The Home page (Figure 6) is used to access other pages within ELK M1ToGo.



Figure 6. Home Page

Status Window: located in the top center of the page. This window displays basic information such as date/time, area name, and trouble messages.

Sync Button: located in the top left corner of the page. This button forces ELK M1ToGo to synchronize with your system. This option is recommended ANYTIME new options (zones, lighting, outputs, tasks, etc.) are programmed into the control panel.

Logout Button: located in the top right corner of the page. This button will terminate your current connection and take you back to the “Login” page.

Submenu Buttons: The six sub menu buttons “Security”, “Tasks”, “Lighting”, “Outputs”, “Custom”, and “Climate” will take you to their respective pages. Details on these pages are located below.

Security

To access the Security page (Figure 7), click the Security button on the Home page. The Security page displays overall system status and provides many of the operational capabilities that are available from a physical keypad.



Figure 7. Security Page

Status Window: Displays current arm status/mode, date, and time. It also displays system messages for chime and bypass features.

Quick Arm Button: Allows single or double press arming of the system, if allowed by the system.

- **Exit Button:** Arms to Away Mode, toggles to Vacation Mode
- **Stay Button:** Arms to Stay Mode, toggles to Stay Instant, Night, and Night Instant (Some modes not available on all systems)

To toggle the arm mode, click the quick arm key multiple times. Note: Use of quick arm Exit and Stay keys requires the M1 system to be programmed to allow single or double key press quick arming. If the quick arm feature has been disabled in programming, a valid code entry is required to arm the system.

Function Buttons: These six “F” buttons may be used as panic buttons or to perform other function such as open/close the garage door, turn on lights, etc. A description appears under each button, indicating its function. The button may also illuminate (as shown on the F4 button in Figure 7) to indicate the alarm is activated, the garage door is open, the light is on, etc. The function and illumination event of each button is determined by the programming configuration of the M1 system.

Keypad Select: located in the top center of the page, below the “Status Window”. This drop down box allows you to change which keypad you are viewing, if multiple keypads exist in the system.

Chime Mode Button: This button is used to activate the Chime feature. This feature provides an audible alert when certain doors, windows, etc. are violated. There are four different selections for the Chime Feature: Tone, Voice, Tone/Voice, and Off. Click the Chime button to toggle between the selections. The Status Window will display the Chime mode as the key is pressed. When the chime is active the button is illuminated.

- **When the Chime is activated in voice mode, the voice messages can be heard on the speakers connected to output 1 only. The ELK M1ToGo software does not output voice or chime on the computer on which it is installed.**

Bypassing Zones Using the # Button: This button is used to temporarily exclude a zone from the system, preventing it from activating an alarm. The zone is excluded until the system is disarmed, or the zone bypass is canceled.

Bypassing a Zone

1. Press the # button
2. Enter the number of the zone you wish to bypass
3. Press the # button again
4. If the zone is bypassed, the status window will display Ready w/Bypass

A zone bypass can be canceled by repeating the steps above.

Quick Bypass of Violated Zones

This feature allows you to easily bypass all violated zones.

1. Press the # button
2. Enter 999
3. Press the # button again
4. If the Quick Bypass is accepted, the status window will display Ready w/Bypass

- **Only zones that have been programmed as bypassable can be bypassed. Furthermore, bypassing of zones is only available if the user code which was used to log onto ELK M1ToGo actually has the bypass privilege enabled.**

Zone Status Key: Click this button to display the Zone Status pages (Figure 8). Each page provides a quick view of the current status of up to 12 zones at a time. It also allows you to easily bypass zones (if enabled).



Figure 8. Status Page

The button next to each zone displays the zone's status. A zone can be bypassed by clicking the button next to the zone name.



Indicates that the zone is normal or secure



Indicates Zone is violated or not secure



Indicates zone is bypassed

Each page displays up to 12 zones at a time. If the system has more than 12 zones, a navigation bar will appear at the bottom of the screen to allow additional pages of zones to be accessed.

Event Log Button: Click this button to access the event log (Figure 9) which contains security and system event information such as arming, disarming, zone bypassing, alarms, troubles, etc.

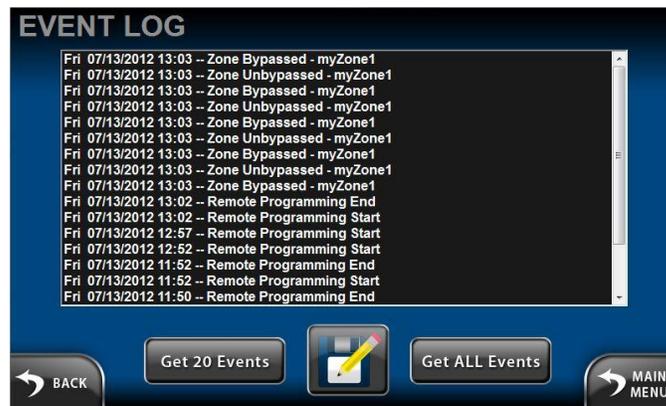


Figure 9. Event Log Page

The event log displays information for each event including the date and time the event occurred and a description of the event. You can view the newest 20 events or the entire log by clicking the corresponding button. The event log can be saved by clicking the Save button in the center. This saves the log as a .txt file. To return to the Security screen, click the Back button in the lower left corner. To return to the Home screen, click the Home button in the lower right corner.

Lighting

To access the Lighting pages (Figure 10), click the Lighting button on the Home page. Each light page allows you to turn lights on/off, adjust bright/dim levels, etc. for up to eight lights at a time.



Figure 10. Lighting Page

Lights can be controlled using the Light buttons and the sliders. Click on the Light button to turn the light on and off. To adjust the bright/dim level of the light, adjust the slider.

- **Not all light formats support the use of the sliders. Support of lighting sliders is determined by available features of the lighting system as well as M1 system configuration.**

Each page displays up to eight lights at a time. If the system has more than eight lights, a navigation bar will appear at the bottom of the screen to allow additional pages of lights to be accessed.



IMPORTANT:

Only lights that have the proper equipment and are interfaced to the M1/EZ8 system may be controlled. The current state of the light may not always be accurate, particularly when there are other controllers or automation devices installed or the lighting devices do not provide the status.

Climate

To access the Climate pages, click the Climate button on the Home page. The Climate pages allow you to control thermostats connected to the system and view the current temperature of the keypads and temperature sensors connected to the system. Temperatures may be displayed in Fahrenheit or Celsius as determined by M1 system configuration.

Thermostat Page

If thermostats are programmed in the system, the Thermostat page (Figure 11) will be displayed when the Climate button is pressed.



Figure 11. Thermostat Page

The current temperature at the thermostat is displayed in the center of the page.

Selecting Thermostats: A navigation bar at the top of the screen allows additional thermostats to be accessed.

Heating Setpoint: Use the up and down arrows to adjust the Heating setpoint. The current setpoint is displayed between the up and down buttons.

Cooling Setpoint: Use the up and down arrows to adjust the Cooling setpoint. The current setpoint is displayed between the up and down buttons.

Off, Heat, Cool, Auto Buttons: These buttons allow you to change the thermostat mode.

Hold: This button allows you to turn the Hold setting On or Off.

Fan: This button allows you to change the fan setting to Manual or Auto.

Sensors

If you have other temperature sensors attached to your system, click on the sensors button at the top of the page. This will display the current temperature of all the keypads and temperature sensors connected to the system (Figure 12). The system can have a maximum of 16 keypad and 16 temperature probes.



Figure 12. Sensor Page

Tasks

To access the Tasks pages (Figure 13), click the Tasks button on the Home page. This page allows you to activate tasks that have been programmed in the system. Up to twelve tasks are displayed on each page.



Figure 13. Tasks Page

If the system has more than twelve tasks, a navigation bar will appear at the bottom of the screen to allow additional pages to be accessed.

To activate a task, simply click the button of the task you want to activate.

Outputs

To access the Outputs Pages (Figure 14), click the Outputs button on the Home page. This page allows you to control up to twelve outputs per page, which may be used to open/close the garage door, open/close blinds, turn on/off sprinklers, etc.



Figure 14. Outputs Page

An output can be turned on or off by clicking the button beside the output name. The button will be illuminated when the output is on.

Each page displays twelve outputs at a time. If the system has more than twelve outputs, a navigation bar will appear at the bottom of the screen to allow additional pages of outputs to be accessed.

Custom Settings

To access the Custom Settings pages (Figure 15), click the Custom button on the Home page. Each Custom Settings page allows you to make adjustments to up to twelve custom settings programmed into the system. Custom settings are used to make adjustments to certain aspects of the way your system is programmed. For instance, you may want to adjust the time that the lights or sprinklers come on, or how long they stay on.



Figure 15. Custom Settings page

Each page displays up to twelve custom settings at a time. If the system has more than twelve custom settings, a navigation bar will appear at the bottom of the screen to allow additional pages of custom settings to be accessed.

The Custom Settings pages display the current setting to the right of the custom setting name. To make an adjustment to a custom setting click on the button next to the custom setting name. This will display a page for that setting (Figure 16).



Figure 16. Custom Setting Adjustment page

Use the number pad to make the desired adjustment to the setting. A custom setting may be a timer, a time of day, or a number. If the setting is a timer, this page will allow you to change the duration of the timer in hours, minutes, and/or seconds. If the setting is a time of day, this page will allow you to choose a different time of day in the 12 hr. format with AM or PM indications. If the setting is a number, this page will allow you to enter a number between 0 and 65,535.



Printed in USA