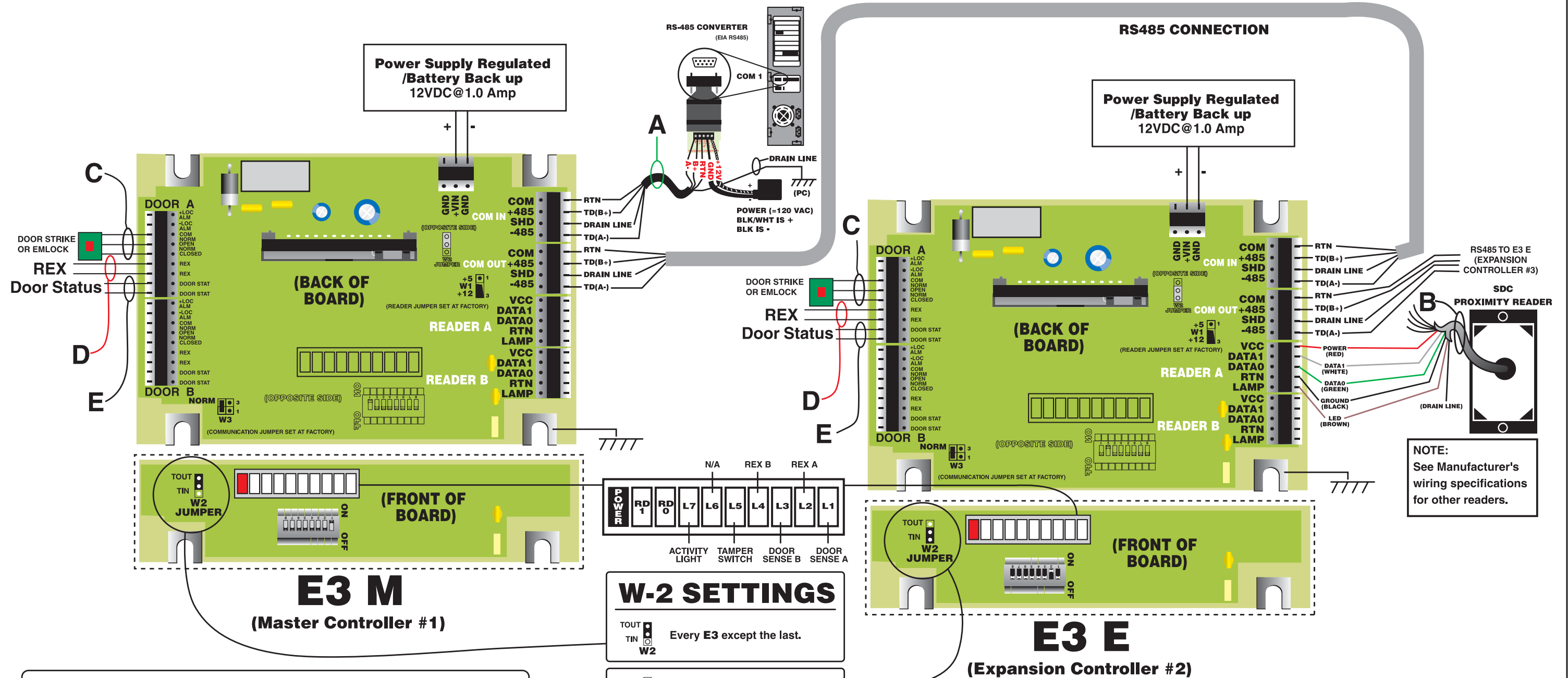


# EntryCheck™ E3M Master Controller with E3E Expansion Controller(s) Wiring Guide

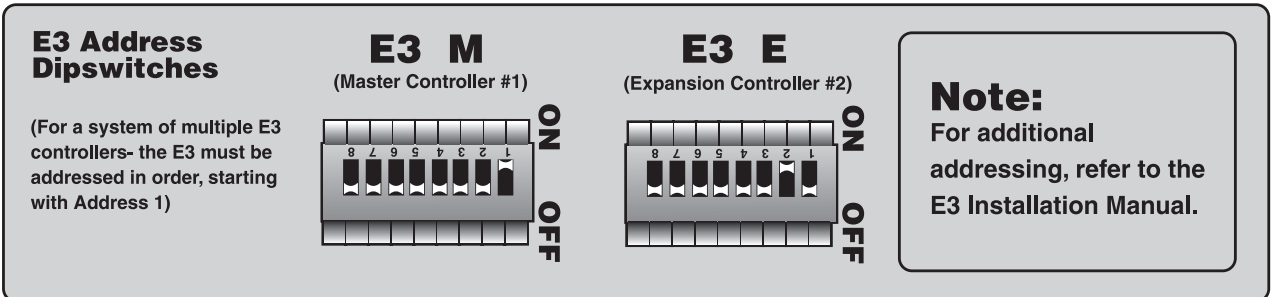
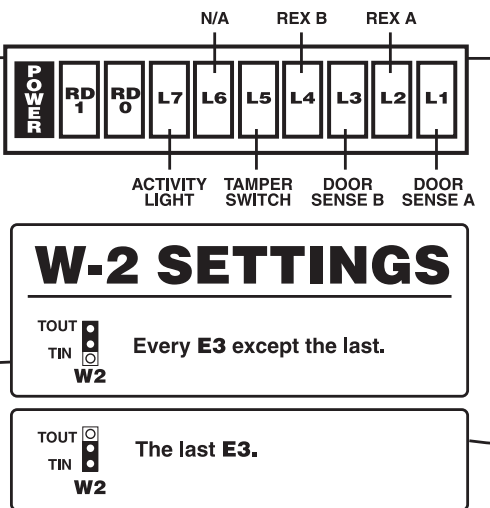


**NOTE:**  
See Manufacturer's wiring specifications for other readers.

### CABLING INFORMATION

	Conductors	A.W.G Gauge	Max. ft.
<b>A</b>	RS485 Converter to Last E3	4 #22 (0.35mm)	4000 (1220m)
<b>B</b>	Proximity Reader to E3	6 #22 (0.35mm)	500 (152m)
<b>C</b>	Door Lock to E3	2 #18 (1.00mm)	500 (152m)
<b>D</b>	REX to E3	2 #22 (0.35mm)	1000 (305m)
<b>E</b>	Door Status Contact	2 #22 (0.35mm)	500 (152m)

NOTE: All Cabling must be stranded twisted pair with overall shielding, and with drain line.



**Note:**  
For additional addressing, refer to the E3 Installation Manual.

# FREQUENTLY ASKED QUESTIONS

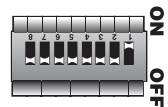
## Check for these problems first:

- Faulty Cable connections.**  
Follow Wiring Guide in the E3 Installation Manual and readers manufacturer's specifications.
- Inadequate Power Supply.**  
E3 with two proximity readers require a continuous 1 amp at 12VDC. Any door strikes connected to the power supply must be properly rated. Be sure to make allowance for the in-rush current of door strikes (X2). Magnetic locks have a high in-rush current, as high as 1.5 amps. This must be considered during sizing of the power supply.

**Problem 1:**  
Can't communicate to E3.

- Checklist:**
- Check RS485 wiring.
  - Check E3 Dipswitch setting.  
-All E3 are sent as E3 #1. Dipswitch #1 (labeled Upside down) is toward middle of PCB. All others are to edge of board. This is correct for E3 #1.

The most common error is Dipswitch is programmed upside down.



**Problem 2:**  
E3 not on-line

- Checklist:**
- Check dipswitch setting for E3 number.
  - Check communication wiring, polarity is critical. Com (+) to RS485 (+)/B: COM (-) to RS485 (-)/A
  - Re-power E3

**Problem 3:**  
Com1 Error: Port Being Used

- Answer:**
- Disable all auto-loading back ground programs, ie. Palm Pilot or Phone Link.

**Problem 4:**  
Run Time Error after initial installation

- Checklist:**
- Close all applications before installing. Check no background program running, ie.: COM Links, Palm Pilot or Phone
  - Uninstall through Control Panel any earlier version of EntryCheck.
  - Reinstall EntryCheck.

**Problem 5:**  
What is the Power Consumption of E3?

- Checklist:**
- The E3 draws less than .25 amps @ 12VDC. E3 must have it's own 12VDC power supply (not supplied).
  - All other hardware power consumption must be sized appropriately.

**Problem 6:**  
Reader Connect/Disconnect Error

- Checklist:**
- Change jumper setting for voltage supplied to readers on Jumper W1.
  - Check reader wiring.
  - The four unused reader wires cannot short together or ground to shield. Shorting will cause erratic behavior.

**Problem 7:**  
Door Output Rating (Door strike)

- Checklist:**
- 2 amp @ 12VDC maximum PCB rating per door.
  - Relay is rated for 5 amp @ 30VDC or 250VAC. Do not exceed 50% of contact rating.
  - No internal voltage supplied, terminals hook directly to relay contacts.

**Problem 8:**  
No reader LED

- Checklist:**
- Check reader wiring.
  - The four unused reader wires cannot short together or ground to shield. Shorting will cause erratic behavior.

**Problem 9:**  
What is the local alarm terminal rating?

- Checklist:**
- 100 milliamps @ 12VDC
  - The Local Alarm Plus (+) terminal supplies 12VDC. The negative (-) terminal will sink up to 100 milliamps.

# EntryCheck™ E3M Master Controller with E3E Expansion Controller(s) Quick Installation Guide

## PARTS CHECKLIST

QTY	Model/Description
*1	EntryCheck CD Software
1	E3 2 Door Controller in enclosure
1 or 2	Proximity Readers
*50	Proximity Cards
*1	RS485 Communication Converter
*1	Power Source for RS485 Converter
*1	Card Reorder Form

\*Not included in E3 Expansion Kit

## POWER-UP CHECKLIST-E3

- The E3 Red Power Indicator must be ON (left-most indicator on LED strip on front of board).



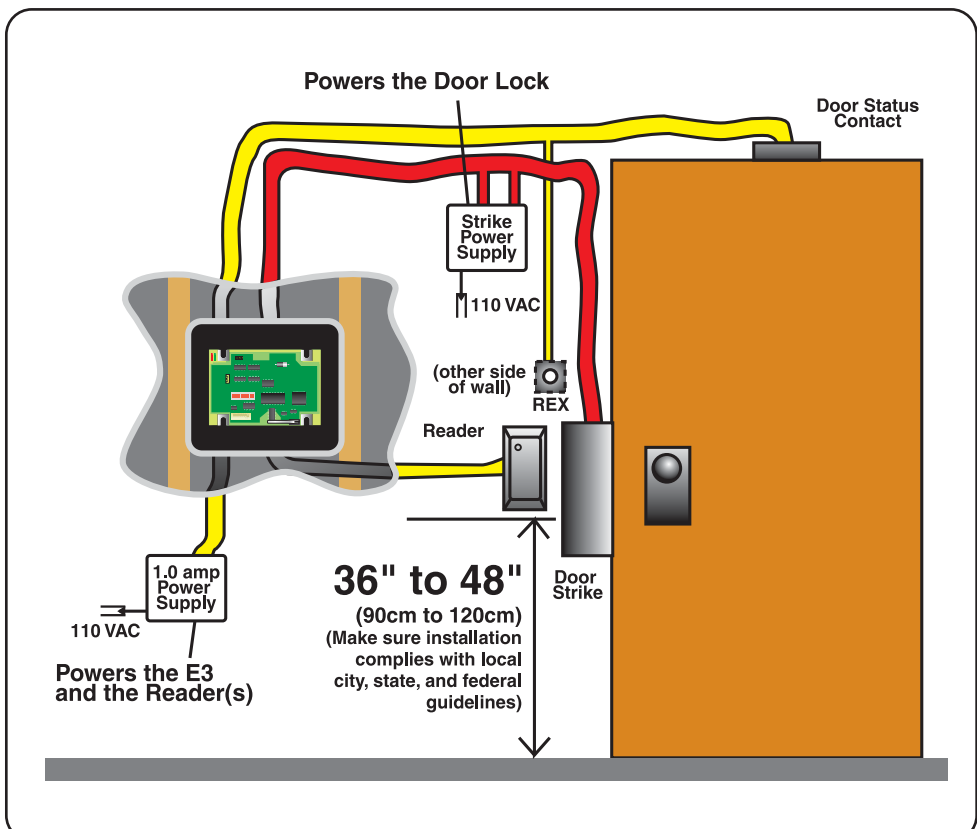
- Check for the one second clock of the Activity Light (L7).
- The Proximity Reader(s) Red Power LED Indicator must be ON.
- Present any card that comes with the system to the connected Proximity Reader. The Door Strike should energize to open door.
- Press the REX button. Door Strike should activate.
- Connect to PC to the System by connecting the RS-485 converter and connecting the plug in power supply to COM1 of the PC.
- Load the EntryCheck program on the PC, following the instructions in the EntryCheck Installation Manual (INST-E3 Installation Manual).

## INSTALLATION PROCEDURE

NOTE: Do not connect the PC to the E3 System until all the steps below have been completed. Follow all local, state and federal codes applicable for the installation of this device.

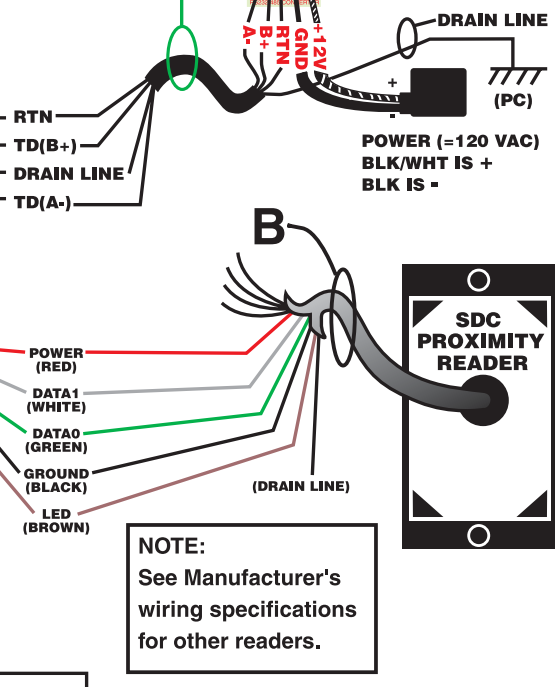
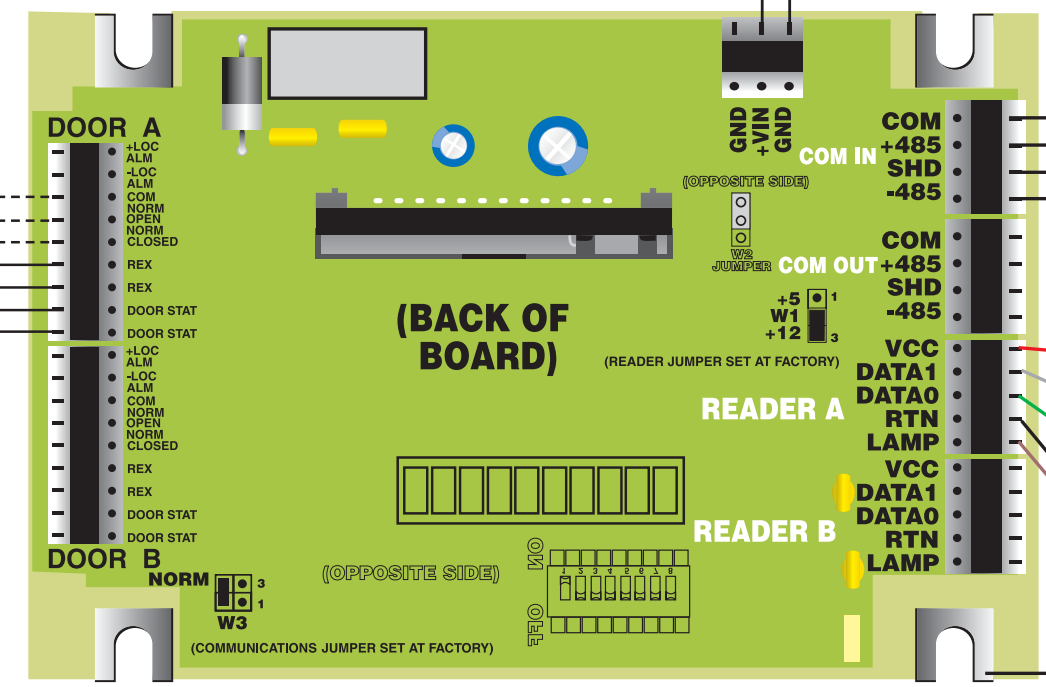
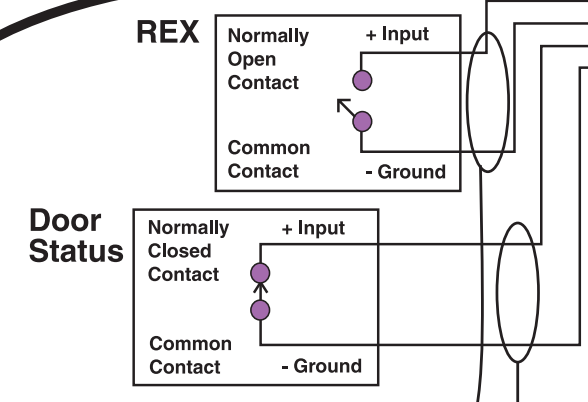
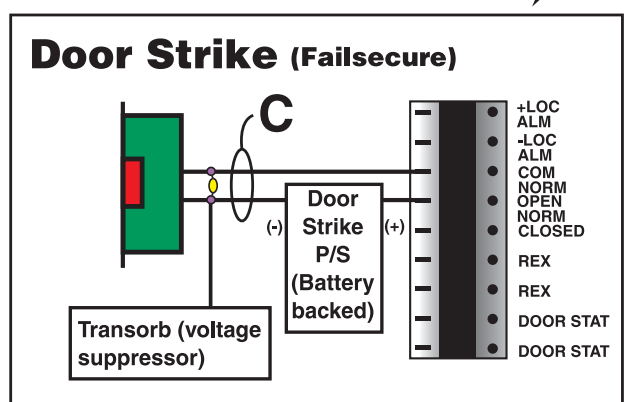
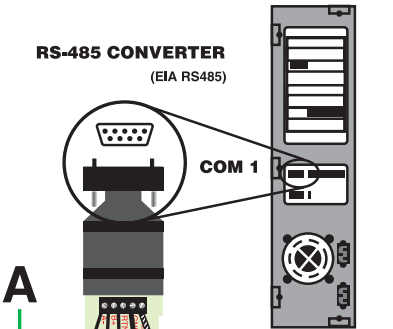
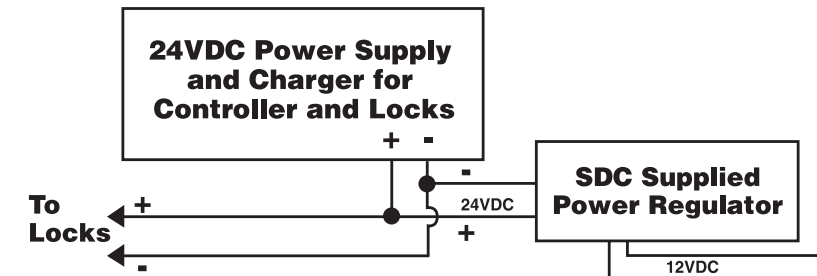
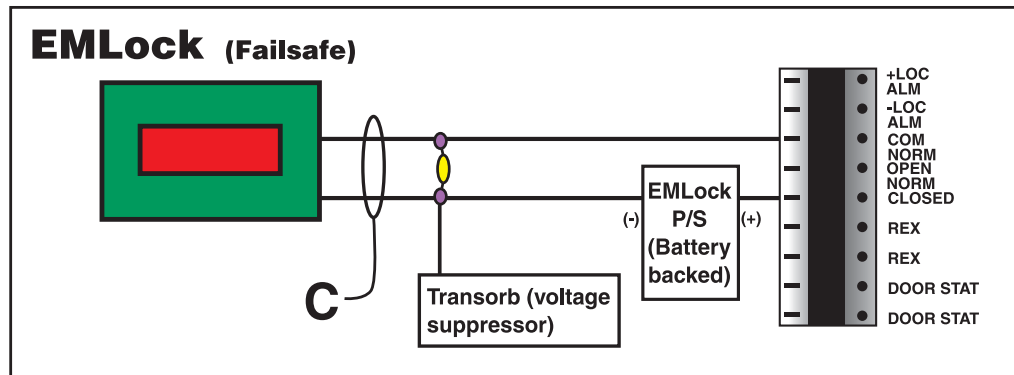
- Mount E3 enclosure.
- Install the necessary 12 VDC power supply. (not supplied)  
CAUTION: Do not connect the AC power until completing Step 8.
- Install the reader.
- Install the REX (Request to the Exit Button) if used.
- Install the Door Status Contact if used.
- You must install the supplied Transorbs at the door strike as described in the installation guide.
- Connect the Door Strike or Door Lock.
- Double-check all connections for proper installation.
- Carefully connect the AC power to the Power Supply.
- Now proceed to the Power-Up Checklist.

NOTE: Door Status contact and/or the REX connections may not be required for your application.



# E3 Wiring Guide (Use for Master and Expansion controllers equipped with a SDC dual voltage power supply that powers both the 12VDC E3 controller and 24VDC locking devices.)

01/08/02



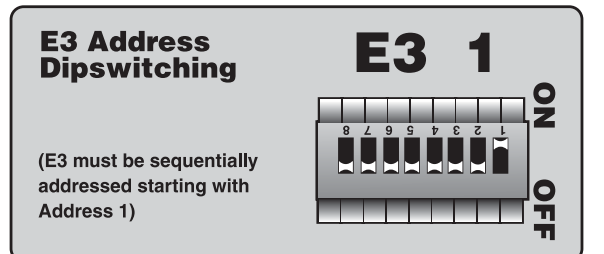
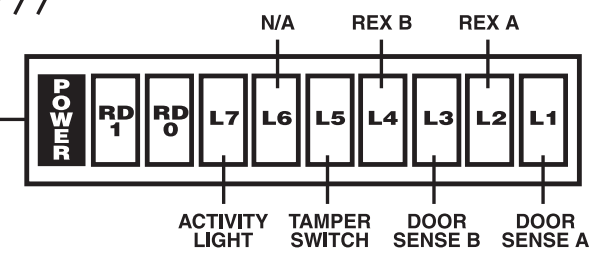
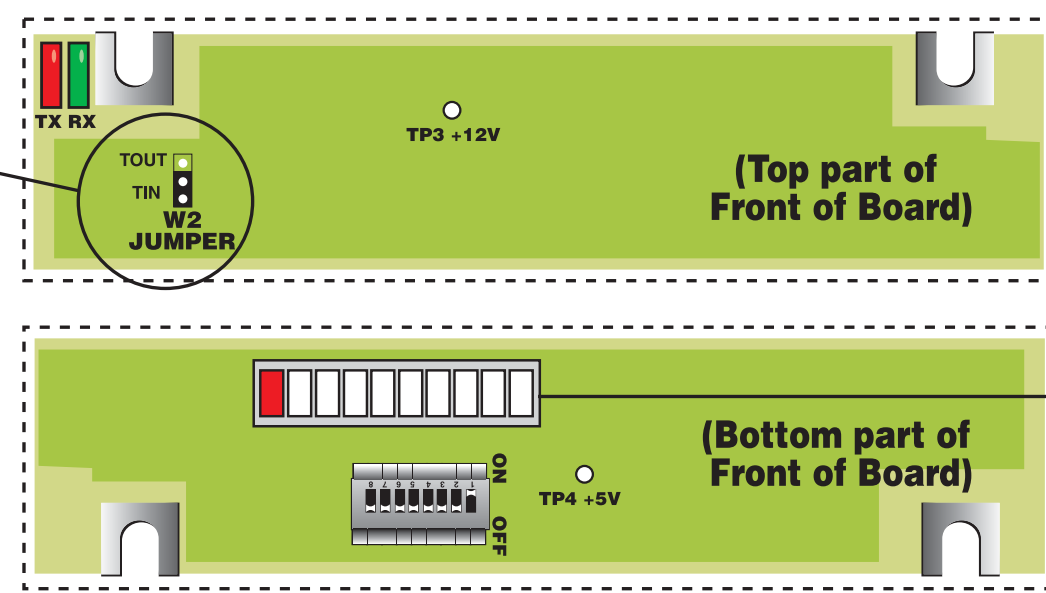
**NOTE:**  
See Manufacturer's wiring specifications for other readers.

### CABLING INFORMATION

	Conductors	A.W.G Gauge	Max. ft.
<b>A</b>	RS485 Converter to Last E3	4	#22 (0.35mm) 4000 (1220m)
<b>B</b>	Proximity Reader to E3	6	#22 (0.35mm) 500 (152m)
<b>C</b>	Door Lock to E3	2	#18 (1.00mm) 500 (152m)
<b>D</b>	REX to E3	2	#22 (0.35mm) 1000 (305m)
<b>E</b>	Door Status Contact	2	#22 (0.35mm) 500 (152m)

**NOTE:** All Cabling must be stranded twisted pair with overall shielding, and with drain line.

For Multiple E3 Systems, move jumper on W2 of all E3 to TOUT, except for the last E3



# FREQUENTLY ASKED QUESTIONS

# EntryCheck™ E3M & E3E Controller Quick Installation Guide

01/08/02

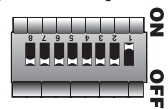
## Check for these problems first:

- 1. Faulty Cable connections.**  
Follow Wiring Guide in the E3 Installation Manual and readers manufacturer's specifications.
- 2. Inadequate Power Supply.**  
E3 with two proximity readers require a continuous 1 amp at 12VDC. Any door strikes connected to the power supply must be properly rated. Be sure to make allowance for the in-rush current of door strikes (X2). Magnetic locks have a high in-rush current, as high as 1.5 amps. This must be considered during sizing of the power supply.

**Problem 1:**  
Can't communicate to E3.

- Checklist:**
- Check RS485 wiring.
  - Check E3 Dipswitch setting.  
-All E3 are sent as E3 #1. Dipswitch #1 (labeled Upside down) is toward middle of PCB. All others are to edge of board. This is correct for E3 #1.

The most common error is Dipswitch is programmed upside down.



**Problem 2:**  
E3 not on-line

- Checklist:**
- Check dipswitch setting for E3 number.
  - Check communication wiring, polarity is critical. Com (+) to RS485 (+)/B: COM (-) to RS485 (-)/A
  - Re-power E3

**Problem 3:**  
Com1 Error: Port Being Used

- Answer:**
- Disable all auto-loading background programs, ie. Palm Pilot or Phone Link.

**Problem 4:**  
Run Time Error after initial installation

- Checklist:**
- Close all applications before installing. Check no background program running, ie.: COM Links, Palm Pilot or Phone
  - Uninstall through Control Panel any earlier version of EntryCheck.
  - Reinstall EntryCheck.

**Problem 5:**  
What is the Power Consumption of E3?

- Checklist:**
- The E3 draws less than .25 amps @ 12VDC. E3 must have it's own 12VDC power supply (not supplied).
  - All other hardware power consumption must be sized appropriately.

**Problem 6:**  
Reader Connect/Disconnect Error

- Checklist:**
- Change jumper setting for voltage supplied to readers on Jumper W1.
  - Check reader wiring.
  - The four unused reader wires cannot short together or ground to shield. Shorting will cause erratic behavior.

**Problem 7:**  
Door Output Rating (Door strike)

- Checklist:**
- 2 amp @ 12VDC maximum PCB rating per door.
  - Relay is rated for 5 amp @ 30VDC or 250VAC. Do not exceed 50% of contact rating.
  - No internal voltage supplied, terminals hook directly to relay contacts.

**Problem 8:**  
No reader LED

- Checklist:**
- Check reader wiring.
  - The four unused reader wires cannot short together or ground to shield. Shorting will cause erratic behavior.

**Problem 9:**  
What is the local alarm terminal rating?

- Checklist:**
- 100 milliamps @ 12VDC
  - The Local Alarm Plus (+) terminal supplies 12VDC. The negative (-) terminal will sink up to 100 milliamps.

## PARTS CHECKLIST

QTY	Model/Description
1	EntryCheck CD Software
1	E3 2 Door Controller in enclosure
1 or 2	Proximity Readers
50	Proximity Cards
1	RS485 Communication Converter
1	Power Source for RS485 Converter
1	Card Reorder Form

## POWER-UP CHECKLIST-E3

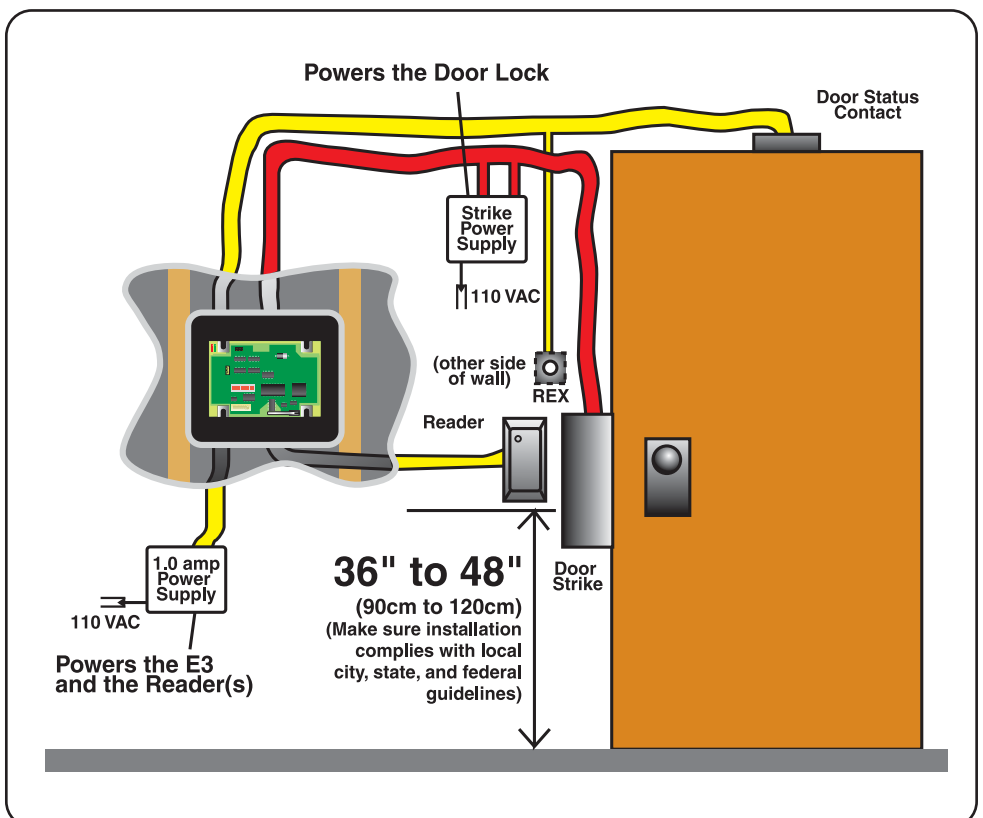
- The E3 Red Power Indicator must be ON (left-most indicator on LED strip on front of board).
- Check for the one second clock of the Activity Light (L7).
- The Proximity Reader(s) Red Power LED Indicator must be ON.
- Present any card that comes with the system to the connected Proximity Reader. The Door Strike should energize to open door.
- Press the REX button. Door Strike should activate.
- Connect to PC to the System by connecting the RS-485 converter and connecting the plug in power supply to COM1 of the PC.
- Load the EntryCheck program on the PC, following the instructions in the EntryCheck Installation Manual (INST-E3 Installation Manual).

## INSTALLATION PROCEDURE

NOTE: Do not connect the PC to the E3 System until all the steps below have been completed. Follow all local, state and federal codes applicable for the installation of this device.

- Mount E3 enclosure.
- Install the necessary 12 VDC power supply. (not supplied)  
CAUTION: Do not connect the AC power until completing Step 8.
- Install the reader.
- Install the REX (Request to the Exit Button) if used.
- Install the Door Status Contact if used.
- You must install the supplied Transorbs at the door strike as described in the installation guide.
- Connect the Door Strike or Door Lock.
- Double-check all connections for proper installation.
- Carefully connect the AC power to the Power Supply.
- Now proceed to the Power-Up Checklist.

NOTE: Door Status contact and/or the REX connections may not be required for your application.





P.O. Box 6219, Westlake Village, CA 91359-6219  
3580 Willow Lane, Westlake Village, CA 91361-4921  
(805) 494-0622 (800) 413-8783 Fax: (805) 494-8861

# E3 EntryCheck™ Programming Manual

FOR E3 FIRMWARE VERSION GREATER THAN 2.00.00

**SDC**  
**3580 Willow Lane**  
**Westlake Village, CA**  
**Phone: (805) 494-0622**  
**FAX: (805) 494-8861**  
**[www.sdcsecurity.com](http://www.sdcsecurity.com)**

First Edition: August 2001

Revision A: August 2005

Information in this manual is subject to change without notice and does not represent a commitment on the part of SDC. The software described in this manual is furnished under a license agreement or nondisclosure agreement. The software may be used or copied only in accordance with the terms of the agreement. No part of this document may be reproduced, or transmitted, in any form or by any means, electronic or mechanical, including photocopying, recording, or information storage and retrieval systems, for any purpose other than specified in the agreement, without the express written permission of SDC.

*Windows* is a registered trademark of the Microsoft Corporation.

© 2005 SDC. All Rights Reserved.

Printed in the United States of America.

## 0.1 Release Notes

### 0.1.1 IMPORTANT COMPATIBILITY OPERATION:

**\*\*WARNING\*\*** NEW E3 EntryCheck IS NOT COMPATIBLE WITH E3 VERSIONS LESS THAN 2.00.00. YOU MUST UPGRADE OLD E3 FIRMWARE WHEN USING NEW E3 ENTRYCHECK. FOLLOW E3 DOWNLOAD INSTRUCTION LOCATED IN ALL ORIGINAL E3 CD.

### 0.1.2 E3 EntryCheck Release Notes:

**E3 Status** screen shows the **Door Status**

The E3 Status screen will indicate if the door is locked or unlocked. Particularly useful when AutoUnlock by Time Period is used.

**Transaction Monitor** can sort data in ascending or descending order.

Highlight the column and right click. Select Ascending or Descending.

**Transaction Monitor** will export to .XLS file.

Highlight a column and right click mouse. Select Export option.

In **Download**, panel firmware can be Upgraded

This is to upgrade firmware application only, **NOT Parameter DATA.**

**Download** can broadcast to all E3 panels (**concurrently**)

After completing Parameter input, Broadcast will update all panel application data.

**Configure Doors** now includes **Counter Properties**

This is an Area Access Counter per panel (not global). Used for garage or parking lots.

Serial Communication has communication password.

To ensure that when attaching to RS485 line access is not granted without proper password. **DO NOT FORGET PASSWORD. PASSWORD CANNOT BE RETRIEVED. E3 ENTRYCHECK WILL HAVE TO BE RELOADED.** Default password is SDC.

## 0.2 Table of Contents

0.1 Release Notes .....	ii
0.1.1 IMPORTANT COMPATIBILITY OPERATION: .....	ii
0.1.2 E3 EntryCheck Release Notes: .....	ii
0.2 Table of Contents.....	iii
<b>1.0 Introduction .....</b>	<b>1</b>
1.1 PC Requirements - E3 EntryCheck™ Software.....	1
1.2 Hardware Requirements .....	1
<b>2.0 Loading E3 EntryCheck™ .....</b>	<b>2</b>
<b>3.0 E3 EntryCheck™ Layout and Features.....</b>	<b>3</b>
3.1 E3 EntryCheck™ Menus.....	4
3.1.1 File Menu Selection .....	4
3.1.2 View Menu Selection.....	4
3.1.3 Database Menu Selection .....	5
3.1.4 Panel Menu Selection .....	5
3.1.5 HOST Menu Selection.....	6
3.1.6 Window Menu Selection.....	6
3.1.8 HELP Menu Selection .....	6
3.2 E3 EntryCheck™ Toolbar.....	7
<b>4.0 E3 EntryCheck™ Programming .....</b>	<b>8</b>
4.1 Configuration Wizard .....	8
4.1.1 Company Information .....	8
4.1.2 New/Open Client Feature.....	9
4.1.3 Door Names .....	9
4.1.4 Door Assignments .....	10
4.1.5 Daylight Savings.....	10
4.2 Door Configuration .....	11
4.2.1 Door Properties .....	11
4.2.2 Access Parameters .....	12
4.2.3 Readers .....	12
4.2.3 Readers .....	13
4.2.4 Counter Properties .....	15
4.3 Standard Time Periods .....	16
4.4 Holiday Time Periods.....	17
4.5 Holiday List .....	17
4.6 Authorization Groups .....	18
4.7 Card Manager .....	19
4.7.1 Adding Cardholders through the Overview and Detail Tabs.....	19
4.7.2 Alarm PIN User Number.....	21
4.7.3 Bulk Change .....	21
4.8 Import and Export .....	22
4.8.1 Import .....	22
4.8.2 Export .....	23
4.9 Download/Broadcast.....	24
4.10 Transaction Monitor .....	25
4.11 Site Codes .....	26
4.12 Generating Reports.....	27

<b>5.0 E3 EntryCheck™ Communication .....</b>	<b>28</b>
5.1 Single Modem; Multiple Panel (SMMP) .....	28
5.1.1 Panel Loop .....	29
5.2 Modem SMMP Programming .....	30
5.2.1 Computer Configuration .....	31
5.2.2 Modem Configuration .....	32
5.2.3 E3 EntryCheck™ Panel Communications .....	33



# 1.0 Introduction

Welcome to the E3 EntryCheck™ Installation and User manual. The E3 access control and alarm system is the best and most cost-effective system on the market for the small to mid-size facilities. This manual will describe the best method for loading E3 onto your system and configuring the access control and security measures capabilities. The manual is designed in the following order:

- 1.0 Introduction ..... 1**
- 2.0 Loading E3 EntryCheck™ ..... 2**
- 3.0 E3 EntryCheck™ Layout and Features..... 3**
- 4.0 E3 EntryCheck™ Programming ..... 8**
- 5.0 E3 EntryCheck™ Communication..... 28**

It is assumed that prior to loading E3, the physical layout of the E3 readers and assorted I/O's of the E3 system have been determined.

## 1.1 PC Requirements - E3 EntryCheck™ Software

To install E3 EntryCheck™ for Windows- 2000/XP, the following requirements must be met:

- Windows 2000 or Windows XP must be installed on the host computer.
- User must have knowledge of mouse and keyboard use in the Windows 2000/XP environment.

## 1.2 Hardware Requirements

Compare your computer hardware features to the chart below, which lists the requirements for proper operation of E3 EntryCheck™. If you have any questions regarding your computer configuration, call SDC Technical Support at (800) 413-8783.

<b>Hardware Item</b>	<b>Minimum Requirement</b>
<b>CPU</b>	IBM PC or equivalent: Pentium (minimum 800 MHz for Host), Windows 2000 or Windows XP.
<b>RAM</b>	256 MB
<b>Hard Drive</b>	8 GB
<b>Diskette Drive</b>	3.5 in., 1.44 MB
<b>CD RW Drive</b>	24X CD RW drive
<b>Monitor</b>	SVGA, 640 x 480, 16 color
<b>Keyboard</b>	AT type
<b>Mouse,</b>	WINDOWS compatible Bus or PS2 Mouse
<b>Parallel Port</b>	LPT1
<b>Serial Port</b>	One DB9 COM RS-232 dedicated for E3
<b>U.P.S.</b>	Uninterruptible Power Supply 420 VA for PC and monitor

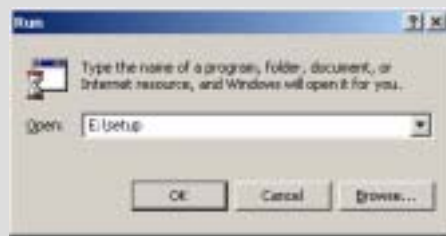
## 2.0 Loading E3 EntryCheck™

Close all programs, including those which default to COM1 (i.e. - PDA communication device, Palm Pilot Link, serial mouse, etc.). Also, disable any virus protection software until installation is complete.

Install the E3 EntryCheck™ program CD into the CD-RW drive. The InstallShield Wizard should load automatically once.

**NOTE:** If the CD-ROM doesn't automatically launch, use the following steps to launch the **InstallShield Wizard**.

1. Enter **Windows** to find out what is the letter name of the CD-ROM drive.
2. Click on the **Start Menu** and then select **Run**.
3. Type in the Letter of the CD-ROM drive followed by **:\setup.** Click **OK**. This will start the loading process.



The **InstallShield Wizard** takes over the loading process and will guide you through the rest of the process.

1. Enter your **Name** and **Company Name** and click on **Next**.



2. Check the appropriate language you wish to operate E3.
3. Install will automatically load the E3 into the Program Files folder. Redirect if necessary.
4. Click **Finish** to complete the process and restart your computer.

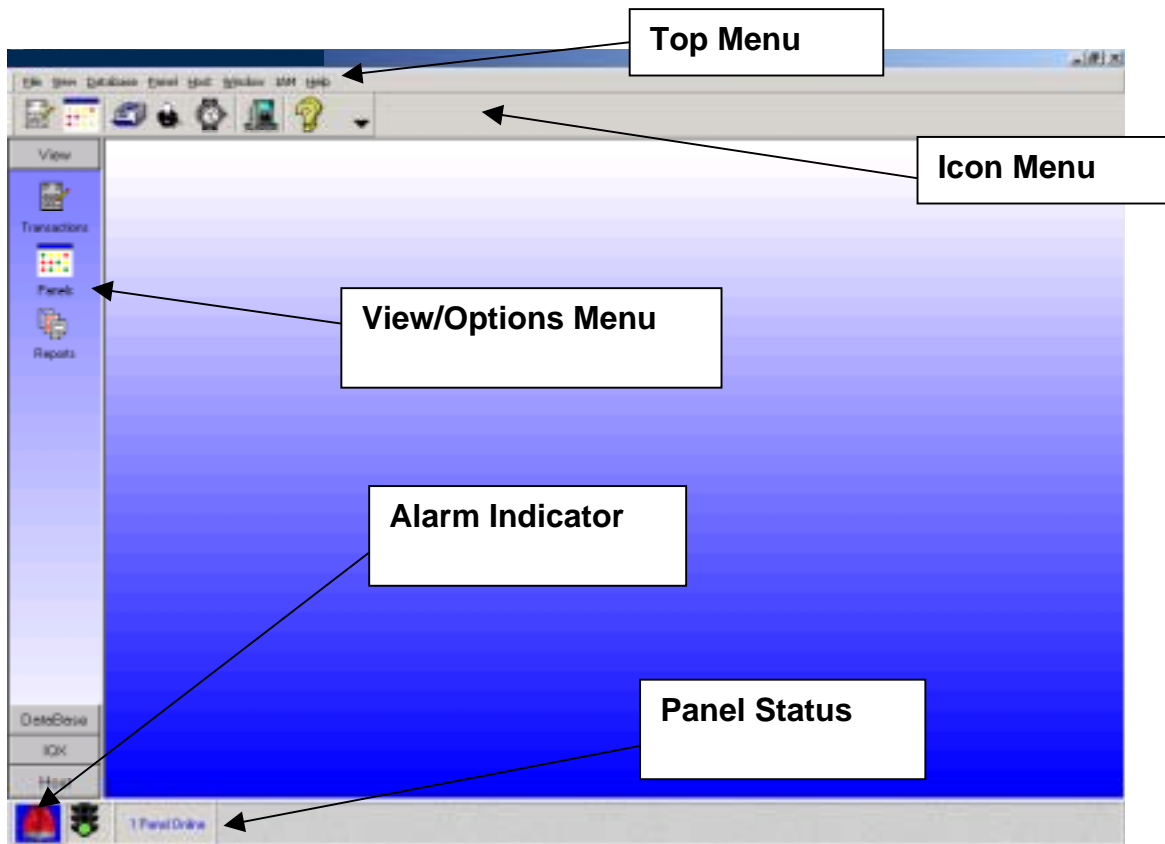


### 3.0 E3 EntryCheck™ Layout and Features

Once you have finished the installation process, a E3 EntryCheck™ shortcut will be placed on your desktop.

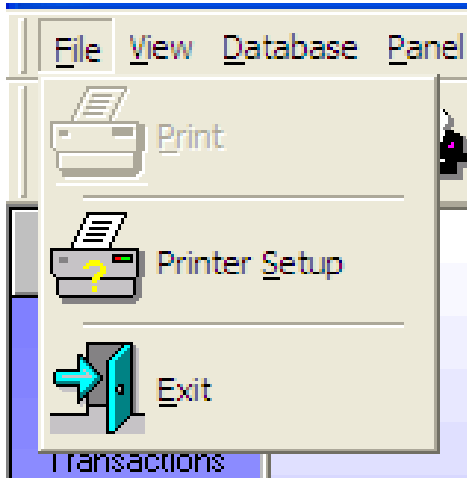
Double-click on the E3 shortcut. E3 will open to it's main page.

**NOTE:** Section 3.0 is devoted to describing the basic layout of the E3 EntryCheck™ program and its different sub-menus. To continue with the programming of E3, please proceed to Section 4.0.



## 3.1 E3 EntryCheck™ Menus

### 3.1.1 File Menu Selection

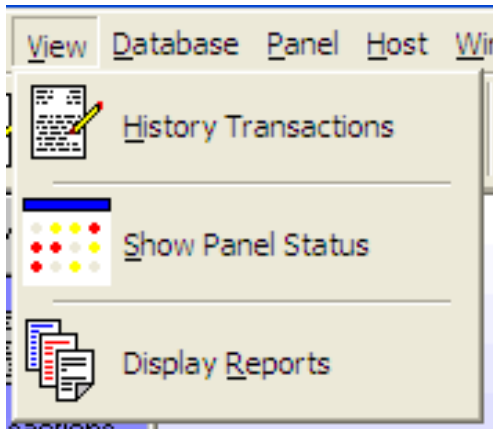


**Print** Prints contents of Transaction Monitor, Reports, Card Manager & Holiday List to select printer

**Print Setup** Allows operator to select a printer on the system and control the properties of the printer

**Exit** Causes E3 to cease operating. By doing this you will cause the controllers to operate in a standalone mode until the program is restarted.

### 3.1.2 View Menu Selection



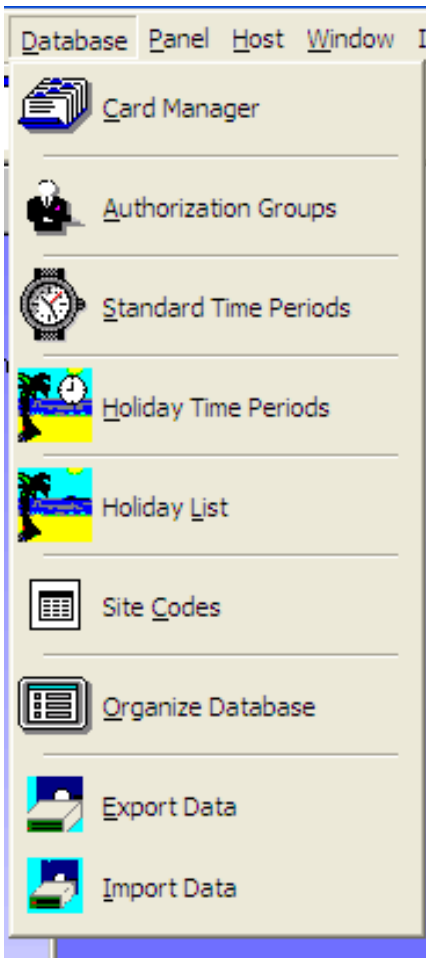
**History Transactions** Allows the operator to view all transactions as they are received from the panels.

**Show Panel Status** View status of all panels & Door Lock Status on the system.

**Display Reports** Predefined reports available to the operator:

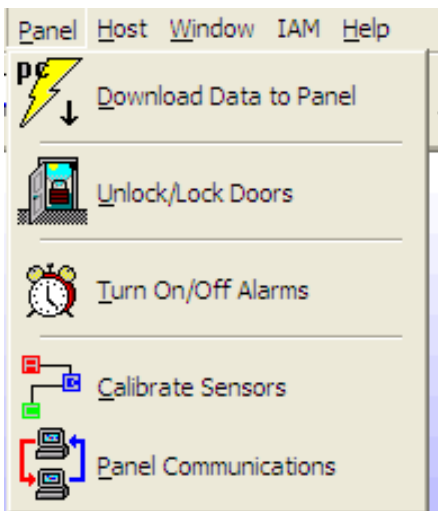
- Card Holder Report
- Holiday List
- Holiday Time Period
- Standard Time Period
- History Log

### 3.1.3 Database Menu Selection



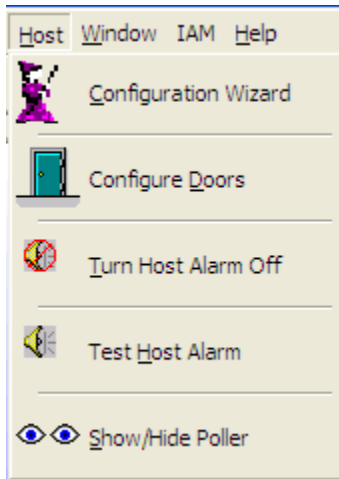
<b><u>C</u>ard Manager</b>	Add/Delete/Change cards in the database [ 1-3,000 Card Capacity]
<b><u>A</u>uthorization Groups</b>	Displays all authorization groups and allow operator to View/Change/ - Add/Delete groups.[1-255 Authorization Group]
<b><u>S</u>tandard Time Periods</b>	View/Change/Add standard time periods. [1-32 Time Periods]
<b><u>H</u>oliday Time Periods</b>	View/Change/Add holiday time periods [1-32 Holiday Time Period]
<b><u>H</u>oliday <u>L</u>ist</b>	Displays the entered holiday list [Up to 64 Holidays]
<b><u>S</u>ite <u>C</u>odes</b>	Ability to View/Change site codes [1-16 Site Codes]
<b><u>O</u>rganize Database</b>	Optimizes and repairs database
<b><u>E</u>xport Data</b>	Allows an administrator to export the current E3 parameters
<b><u>I</u>mport Data</b>	Allows an administrator to import the current E3 parameters.

### 3.1.4 Panel Menu Selection



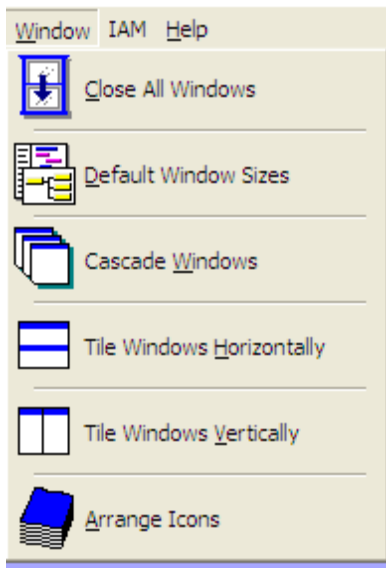
<b><u>D</u>ownload Data to the IQ</b>	Initiate a download of parameters to the panels
<b><u>U</u>nlock/Lock Door(s)</b>	Enables operator to unlock or lock a specific door.
<b><u>T</u>urn On/Off Alarm(s)</b>	Enables/ disables alarms
<b><u>C</u>alibrate Sensors</b>	Calibrates all supervised circuits
<b><u>P</u>anel Communications</b>	Ability to change and set communication via serial RS-232 (COM), modem (dial-up phone line) or TCP/IP (LAN or Ethernet).

### 3.1.5 HOST Menu Selection



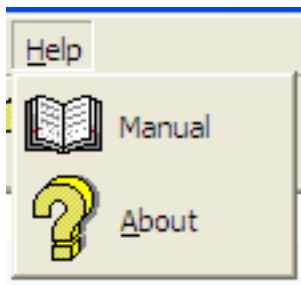
- Configure Wizard** Sets up company information, Door Names, Door Assignments and Daylight Savings times
- Configure Doors** View/change Door Properties, Access Parameters and Readers.
- Turn Host Alarm Off** Toggles the alarm On/Off
- Test Host Alarm** Tests the alarm on the system
- Show/Hide Poller** Turns poller information in E3 task bar on/off.

### 3.1.6 Window Menu Selection



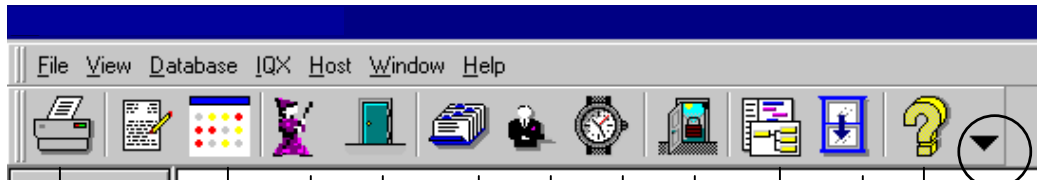
- Close All Windows** Closes all windows previously opened.
- Reset Default Sizes** Restores all windows to default sizes.
- Cascade** Arranges selected windows in a cascaded orientation.
- Tile Horizontally** Arranges selected windows one above the other.
- Tile Vertically** Sets up selected windows side by side.
- Arrange Icons**

### 3.1.8 HELP Menu Selection



- Manual** Opens a pdf version of this manual
- About** Provides information about Author and Version of the program.

### 3.2 E3 EntryCheck™ Toolbar



**Print Form**

**Transaction History**

**Show Panel(s) Status**

**Configuration Wizard**

**Configure Door Parameters**

**Card Management Tool**

**Authorization Groups**

**Standard Time Periods**

**Unlock/Lock Door(s)**

**Reset Windows to Default Sizes**

**Close All Windows**

**Author and Version**

**More Tools**

## 4.0 E3 EntryCheck™ Programming



### 4.1 Configuration Wizard

Once the initial loading of E3 EntryCheck™ is complete, the E3 Configuration Wizard will determine the communication method and basic operating setup. It will download the default database ready to run with the default data and reference the reader where to jump to initiate a full data download.

#### 4.1.1 Company Information

The screenshot shows the 'E3 Configuration Wizard' window. The 'Company Info' tab is selected. The form contains the following fields and buttons:

- Name:** [Your Name]
- Company:** [Your Company]
- Address:** [Your Address]
- Phone:** [Your Phone]
- Buttons:** New Client, Open Client, Done, Password, Regional Setting (United States), OK, Cancel, Apply.

A logo for SDC is displayed on the left side of the form, with the text: SDC, 3580 Willow Lane, Westlake Village, CA 91361, (805)494-6022, www.sdcsecurity.com.

1. Enter: **Your Name**  
**Company Name**  
**Address**  
**Phone number**
2. Select **Apply** or **OK**. Select **Clear** to begin over again.
3. The **Regional Setting** will adjust Holiday List for E3 EntryCheck™.
4. **Password** will protect from unauthorized access to E3 Software. Press **Password**, in the password screen type in your password, twice.
5. The next time E3 is launched, the password will be required. To remove password: follow the same procedure to Add, but enter a blank field.

**Note: Do not forget the password. You can NOT retrieve password. You must reload E3 EntryCheck™ if the password is lost.**



## 4.1.2 New/Open Client Feature



1. To create **New Client**, select **New Client** button at Configuration Wizard.
2. Type the name of the New Client and click **Open**.
3. To open a client, select **Open Client** button at Configuration Wizard.
4. Select the client and click **Open**.

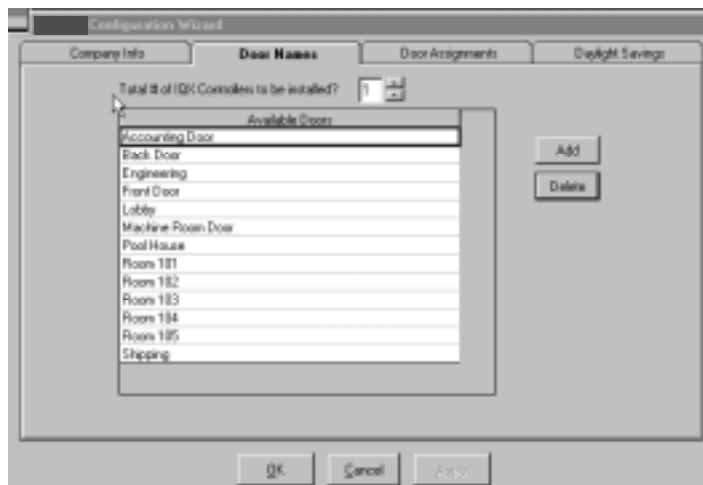
**NOTE:** To change configurations of newly created client, close and reopen E3 EntryCheck™. This will default the settings of the software and will be ready to be changed. It is mandatory to close and reopen E3 whenever switching between clients, for changes to be made to the appropriate client.

## 4.1.3 Door Names

1. Enter the number of panels connected together on this system.

**IMPORTANT** This indicates how many panels to look for.

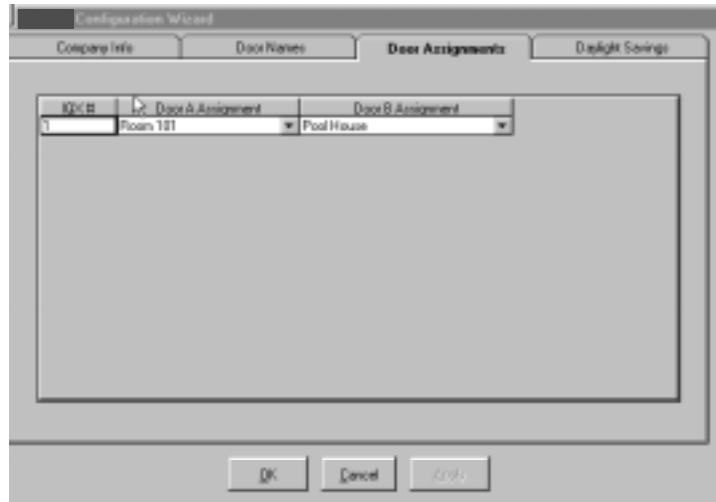
2. Add or Delete door names as they will be used at this site.
3. Select **Apply**.



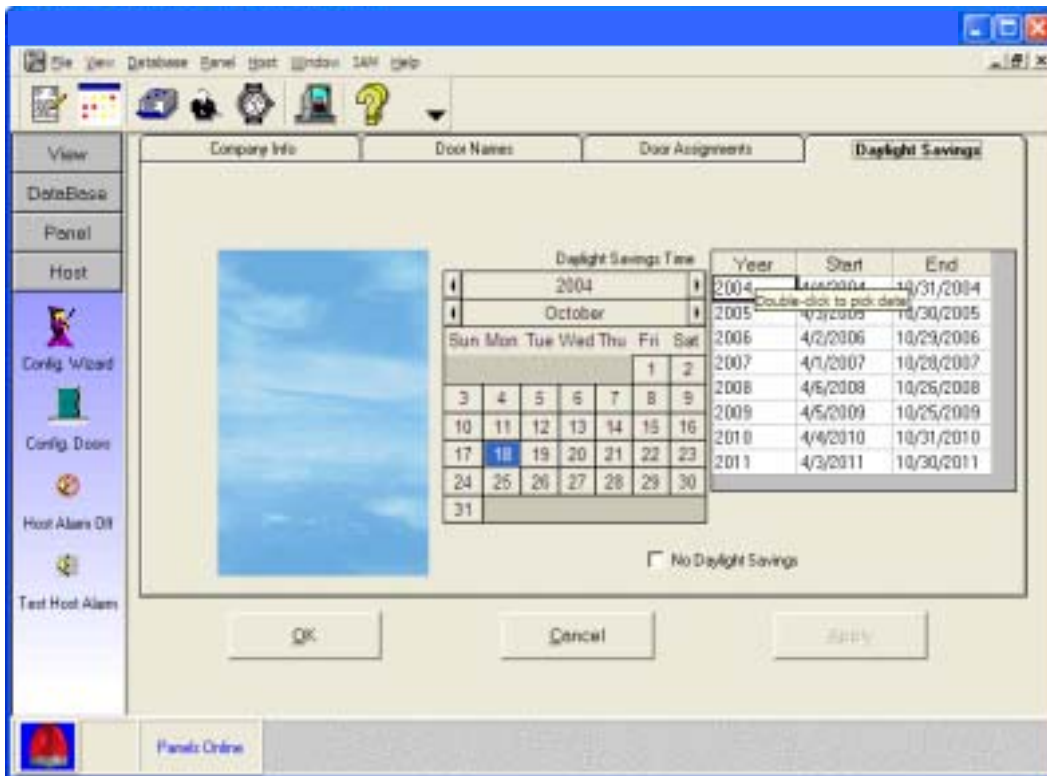
This will create the list of selections that will be used on the next screen.

#### 4.1.4 Door Assignments

1. For each door on the system, select the name of the door by clicking the down pointer and highlighting the name of the door assigned to each panel.
2. Select **Apply** or **OK** to store the names.



#### 4.1.5 Daylight Savings



The daylight savings times have been factory set until 2012. To correct or change any of the default dates you can change the **Start** or **End** dates in the **Daylight Savings Time** field.

Setting the **No Daylight Savings** option will cause the program to ignore **Daylight Savings**.



## 4.2 Door Configuration



**IMPORTANT:**

For all **Configure Door** tabs, select the appropriate panel.

### 4.2.1 Door Properties

This set of screens sets up the operating parameters for all of the access controlled doors. The factory default set up for doors will show all items selected except **Contact Supervised** and **Request to Exit Supervised**.

Set up the **Door Properties** as follows:

- Contact Used** Check this box if door contacts are to be monitored to audit door open or closed status.
- Contact Supervised** Check if contact circuit is monitored for tampering using 4 state supervision.
- Request to Exit Used** Check box if REX (Request to Exit) has been installed and is to be used to allow for push button opening of a controlled door.
- Request to Exit Supervised** Check box if the REX circuit is monitored for tampering using 4 state supervision.
- Valid Card Resets Door Forced Open Alarm** Check this box if you want any local alarm that is sounded to be turned off by the first valid card that is read after the alarm is triggered.
- Enable Door Left Open Alarm Shutoff Time** Select this box to set up the amount of time that the alarm will be bypassed before sounding.
- Alarm Shutoff Time** Used to set the amount of time to shunt the alarm when the Enable Alarm Shutoff Time box has been selected.
- Factory Defaults** Selecting this will cause the program default values to be entered into the door configurations.

## 4.2.2 Access Parameters

The access parameters set up the length of time doors are unlocked and allowed to be open before any action is taken to report alarms.



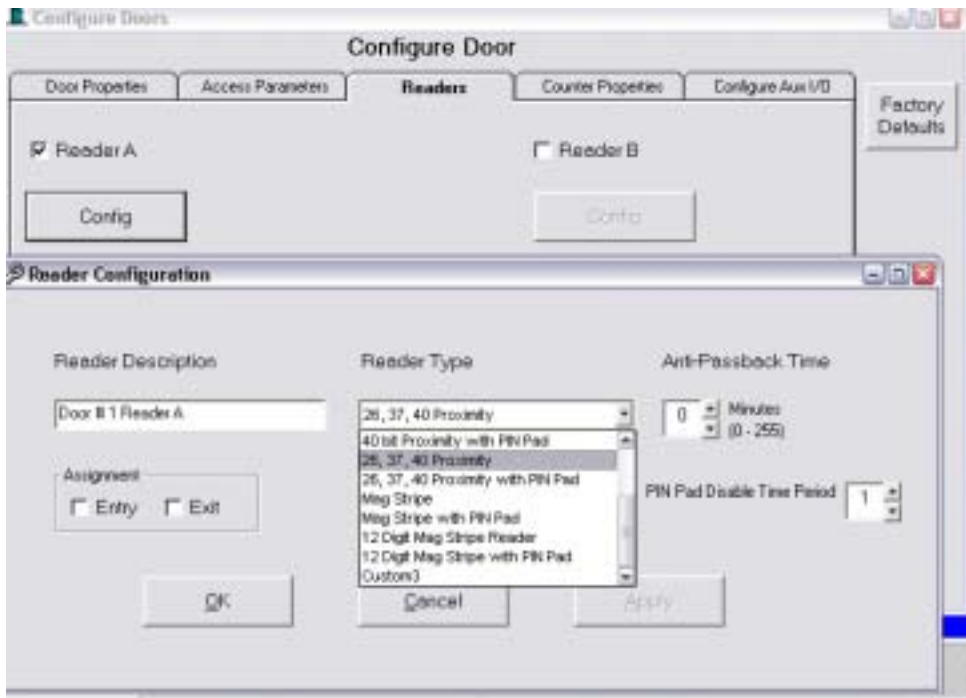
Set up the Access Parameters as follows:

- Unlock Time** The amount of time in seconds that the door lock is energized (door unlocked).
- Open Time** The amount of time that the door can remain open prior to an alarm sounding if an alarm has been selected for this door.
- Long Unlock Time** The amount of time specified for certain cardholders needing extra time to open a door.
- Long Open Time** The amount of extended time that the door will remain open until an alarm is triggered in those cases where additional time is required to get through the door. Maximum setting is 255 seconds.
- Auto Unlock Time Period** The duration which a door will automatically unlock. Select the time period by clicking on the down arrow and highlighting the desired time period.
- Card Unlock** Auto Unlock Time Period starts when first Authorized Card is presented during the Auto Unlock Period.
- Card Lock** Locks door during AutoUnlock Period when Authorize Card is presented.

**Note:** On a Holiday time periods, if Auto Unlock Time Period is programmed, Auto Unlock must always be Authorized with a valid card.

## 4.2.3 Readers

This screen is used to configure each of the readers. E3 EntryCheck™ is compatible with a wide range of proximity readers (such as the PR-N included in the E3 Installation kit), proximity-keypad readers, and magstripe readers.



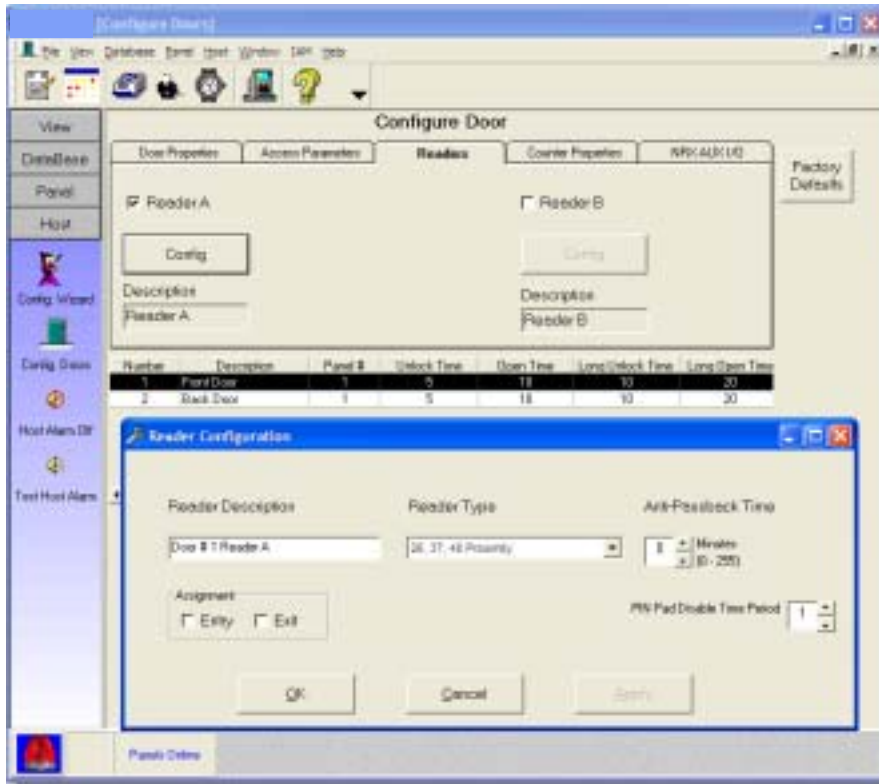
Select the reader by checking the box next to the reader name and press **Config** button to bring up the **Reader Configuration** screen.

### 4.2.3.1 Entry/Exit on a Single Door

E3 EntryCheck™ has the ability for entry/exit capability on a single door. By installing readers on either or both sides of an access point, E3 can be set up to monitor entry and exit from a single room.

In the **Reader Config** screen, in the **Assignment** box, a reader can be set to monitor either **Entry** or **Exit**. In an access point with two readers, **Reader A** may be set for **Entry** and **Reader B** set for **Exit** (or vice versa).

### 4.2.3.2 Reader Configuration Screen



**Reader Description** In this screen you will see the Door # and name assigned to that door.

**Reader Type** Select the down arrow and highlight the reader type being used with this door position on this panel. (This area has been expanded for more reader types.)

**NOTE** If card is selected with Keypad, all cards will default to 0000 as the pin number.

**Anti-Passback Time** Select the amount of time to pass before a card can be used again at this reader. Select **Apply** or **OK** to activate and save your selections.

**NOTE** This is to prevent someone from passing his or her card back to another user to allow entry into the door or gate.

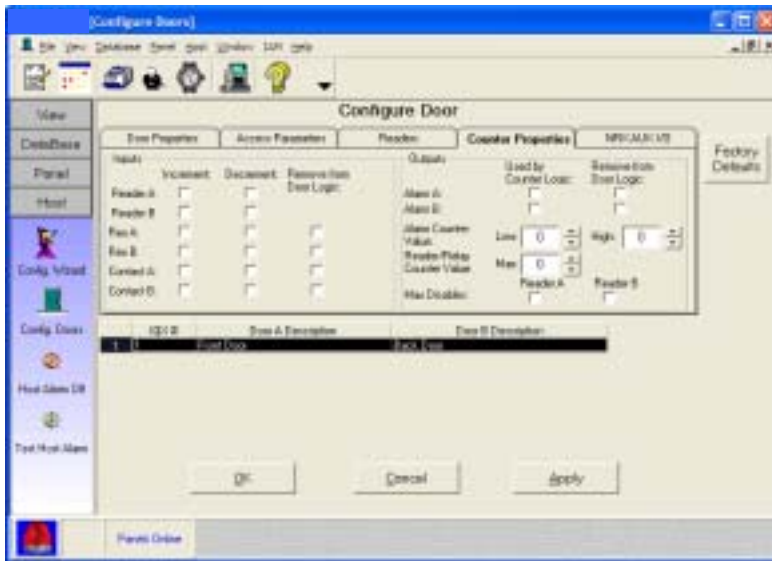
**Entry/Exit Assignment** Allows access to area controlled by a single panel (two doors) only.

**Important** Inside the Reader Configuration window, the proper door must be highlighted when antipassback is required. This will establish the highlighted door as Entry; the second door of this panel will automatically be the Exit.

The operation of Entry/Exit is when a card is authorized to the Entry reader then it must be authorized to the Exit before entry is granted again.

**NOTE** Entry/Exit is per one panel only. It is not global within a system of panels. The EXIT will always be granted.

## 4.2.4 Counter Properties

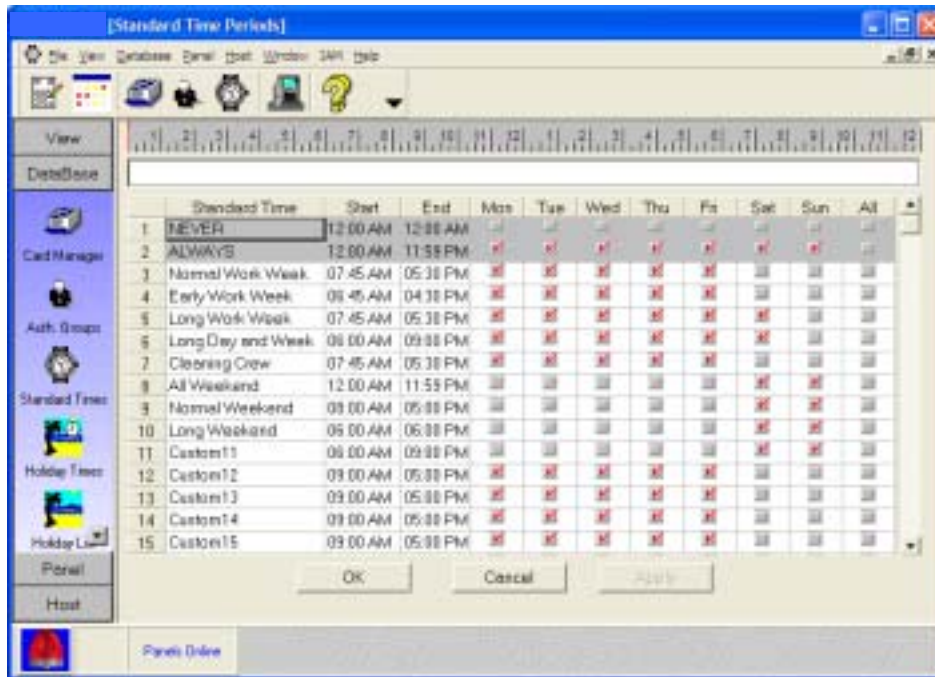


All **Readers, Rex,** and door **Contacts** can be applied to **Increment** or **Decrement** area inputs.

The **High** Count will turn on **Local Alarm.** Maximum count will **DISABLE** door relays.

**NOTE:** Area Counter is controlled by only **one** panel. Each area is controlled one panel, **not** multiple panels.

## 4.3 Standard Time Periods



This screen brings up the factory default time periods.

To change the times within the periods, highlight the Standard Time Period you want to change and:

1. Left-click on the red bar at the top of the screen at either end and adjust its length to your requirements. This will automatically update the Start and End columns as you change the size of the red bar.

OR

2. Double click a Start/End and use the up/down arrows in the box to change the start and end times.
3. Select **Apply** or **OK** to save your data.

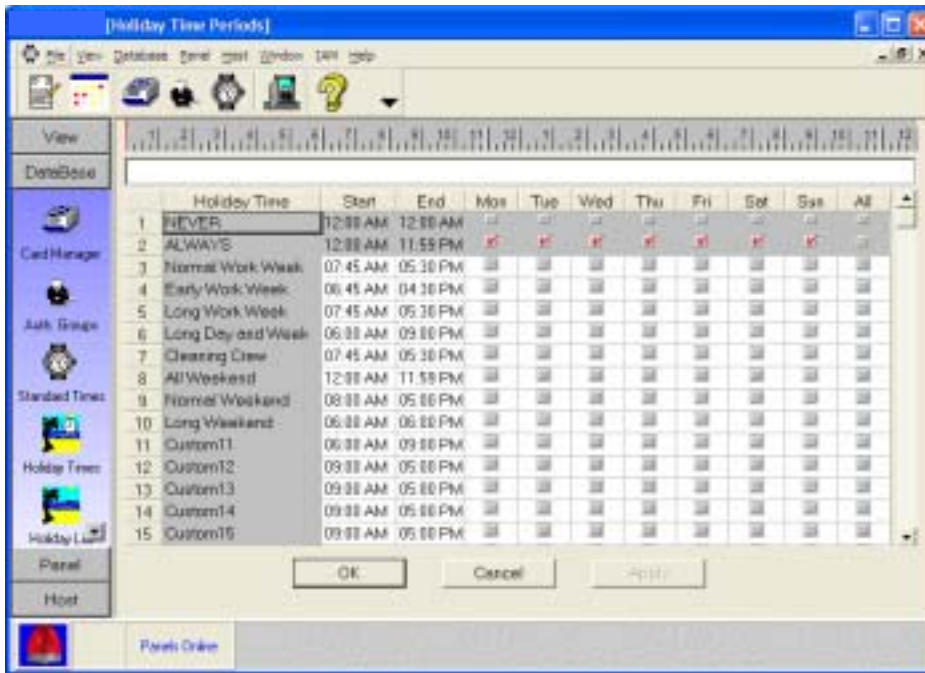
**NOTE NEVER and ALWAYS** are factory defaults and cannot be altered.



## 4.4 Holiday Time Periods



Holiday Time Periods are the controlling times for the corresponding Standard Time Periods and are active on Holidays only.



All Holiday Periods are off until you program them for Holiday use (except ALWAYS)  
Normal Work Week will not have access during Holiday unless Holiday Schedule gives access.

**NOTE** Holiday time periods start at 12 midnight.

Use the same steps to change the **Holiday Periods** as you did above in the **Standard Time Periods**.

**NOTE** NEVER and ALWAYS are factory defaults and cannot be altered.

Select **Apply** or **OK** to save your data.

## 4.5 Holiday List

The **Holiday List** determines those days where the **Holiday Time Periods** are to be invoked.



Holidays should be added by selecting the appropriate month, clicking on a day, and filling in the information in the **Holidays** column.

Select **Apply** or **OK** to save your entries.

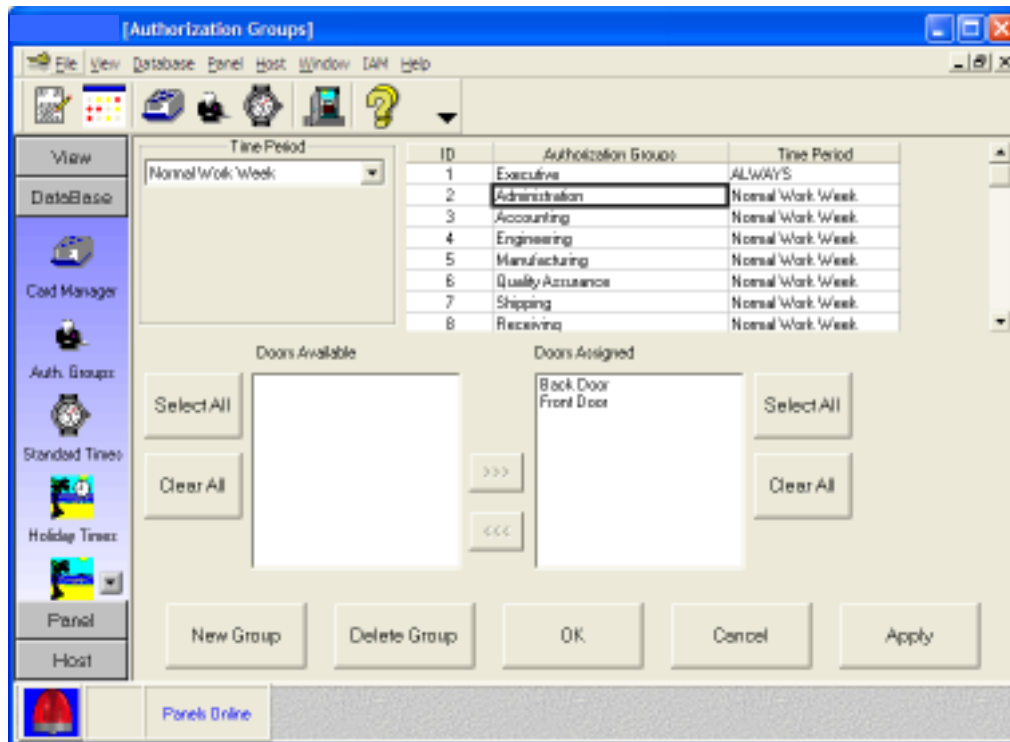
## 4.6 Authorization Groups



An **Authorization Group (AG)** is used with the cardholder record. An AG is a list of readers and the time period in which these readers are accessible. Each cardholder can be assigned 4 Authorization Groups. When a card is presented to the reader, the panel checks the cardholders four AG and verifies that the card reader is valid within one of them. If the reader is not found in any of the Groups assigned to the cardholder, the system will deny access due to **“Invalid Reader”**. When a reader is found within the AG, the current time is checked with the Time Period associated with the AG. If the time is not valid, an **“Invalid Time Period”** transaction will be generated and access will be denied.

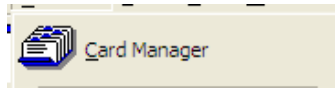
To set-up authorization groups:

1. Click the **Authorization Group** you are going to define.



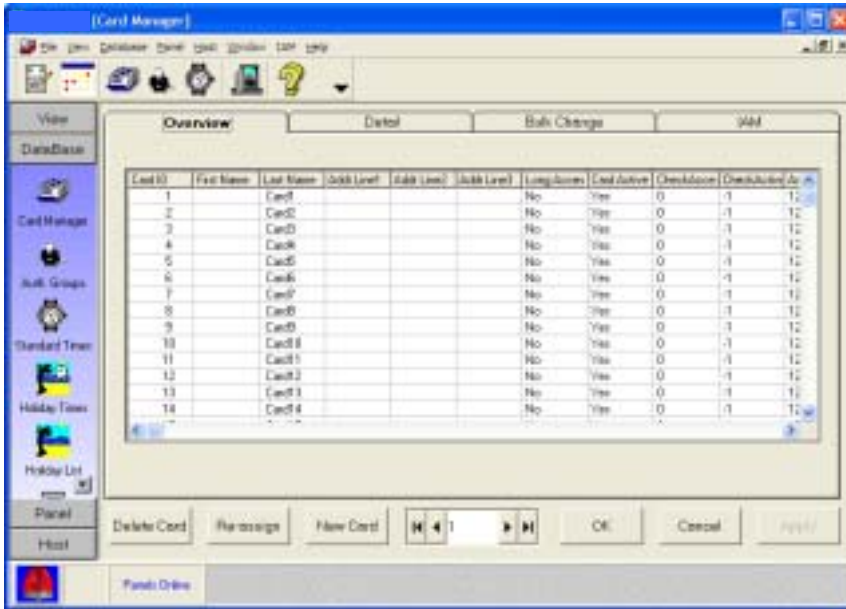
2. Use the **Time Period** down pointer, select the time period to assign. Clicking on the time period you will notice that the time period next to the ID will be changed accordingly.
3. In the areas below, select from the **Doors Available** to be allowed for the current group and use the transfer arrows to move those doors into the **Doors Assigned** column.
4. Select **Apply** or **OK** to make the selection active.

## 4.7 Card Manager

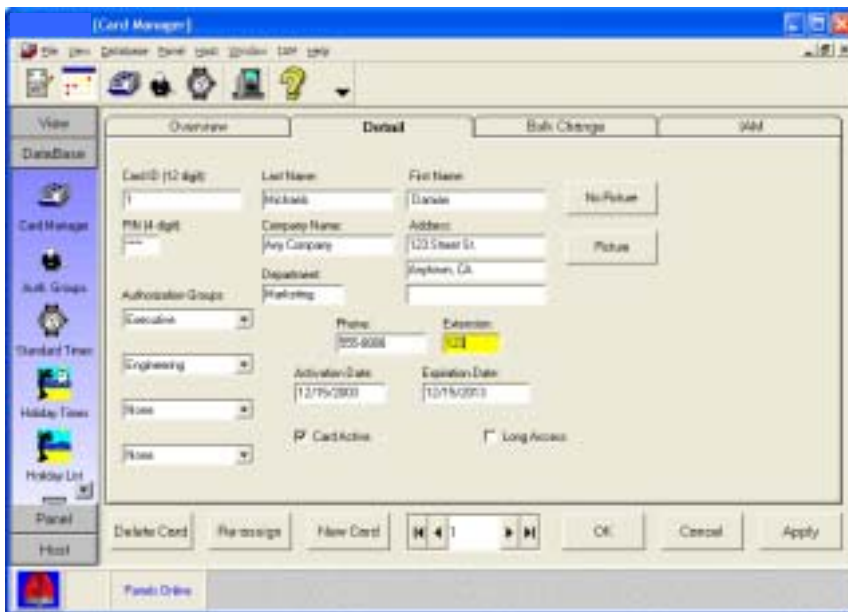


### 4.7.1 Adding Cardholders through the Overview and Detail Tabs

1. To **Add Cardholders** to the database, click **Database**, then **Card Manager**.
2. The **Card Manager** Screen appears:



3. Click on the card number that you want to enter.
4. Click on the **Detail** tab to bring up the **Detail** screen.



**NOTE:**  
The Activation Date defaults to today's date. If the card activates on a different date than today then change the date.

**NOTE:**  
All cards have a default expiration date of ten (10) years from issuance.

5. Enter the **Name, Department, Company Name** and **Address**.
6. Enter **Phone** number and extension if appropriate.

7. Set the **Activation Date**
8. Select an **Authorization Group(s)** for the cardholder.
9. Set **Card Active** to activate the card.

**NOTE** A card will not immediately activate if the activation date is set for the future.

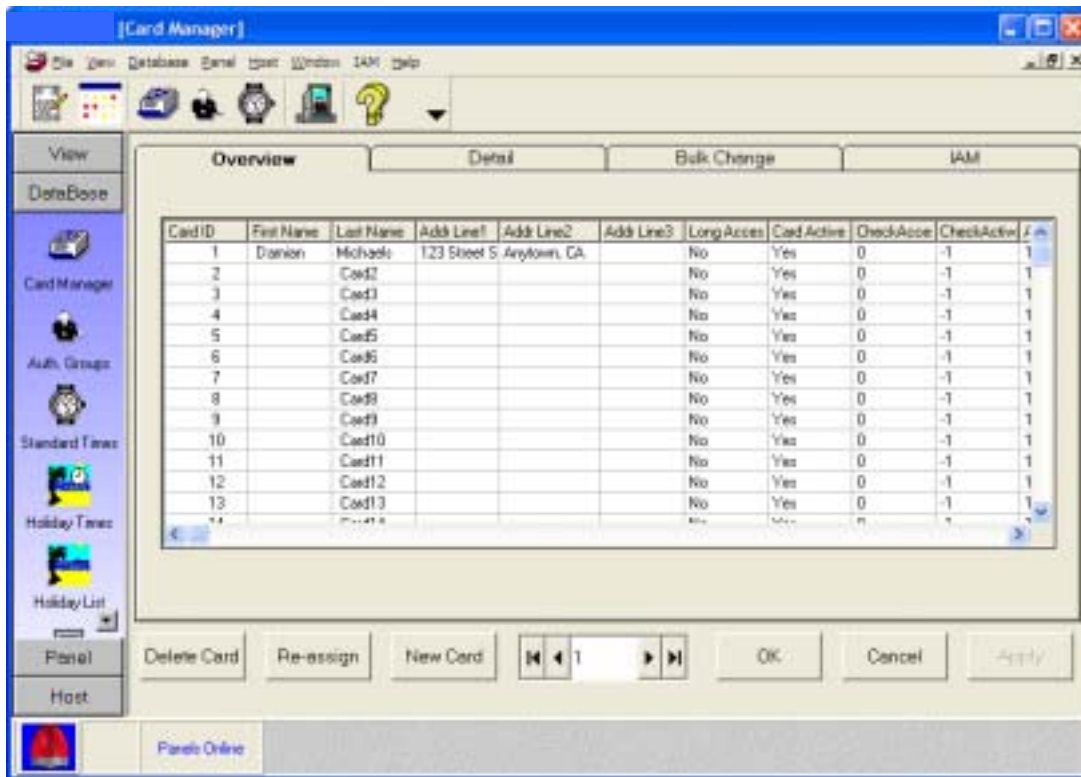
10. Select **Long Access** to increase the amount of time the door can stay open without triggering an alarm.
11. **Picture** will add **JPEG Picture File** to card detail.

**NOTE** Must apply before moving to the next card detail, to save any changes.

12. Click on the right > of the **Change Record** tool to apply these entries and go to the next record.



13. Return to the **Overview** screen to verify that the card you entered has been properly accepted.



## 4.7.2 Alarm PIN User Number



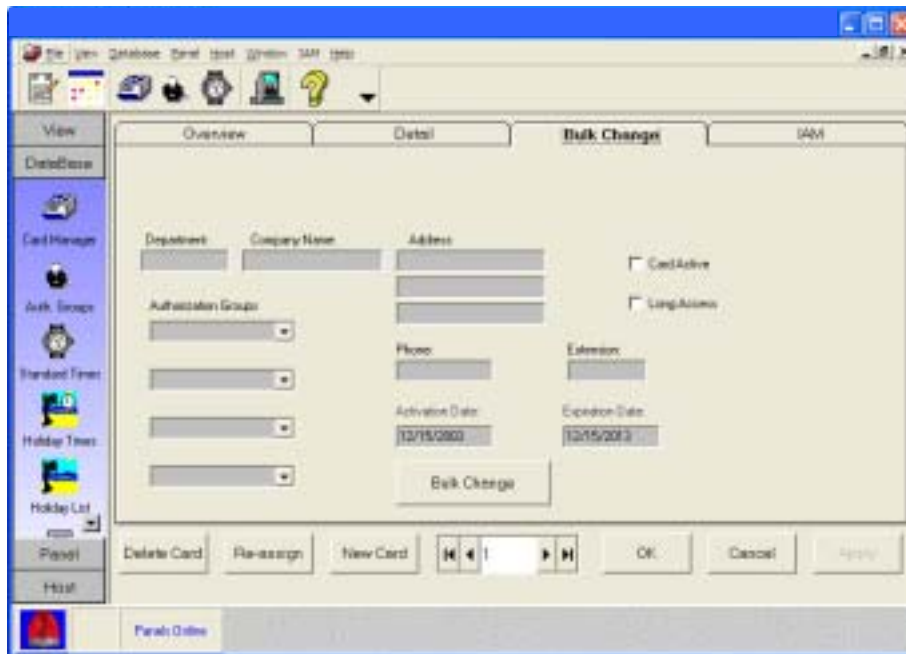
**Alarm Company Employee** is a card for the alarm company. When selected card will not open or arm or disarm system unless an alarm has occurred. When system is normal, card presented to read will report to Central Station.

**Alarm PIN User Number** is first two digits of PIN number.

**Alarm Zone Group** is group armed or disarmed by PIN user.

**Keypad PIN** is last 2-4 digits of PIN number. Combine Alarm PIN User Number with Keypad PIN for user PIN number, i.e.: 01 and 11 pin number is 0111.

## 4.7.3 Bulk Change



Bulk Change allows data to be populated into a range of cards in bulk rather than changing each record individually. Enter the data that will appear in each of the card records and then use the Batch Change button to set up the range of cards to be affected.

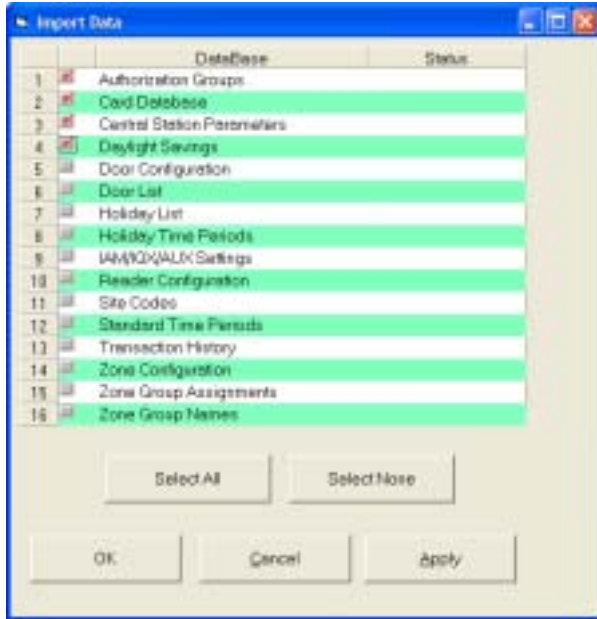
**Note:**

You must download to panel before information is operational.

## 4.8 Import and Export

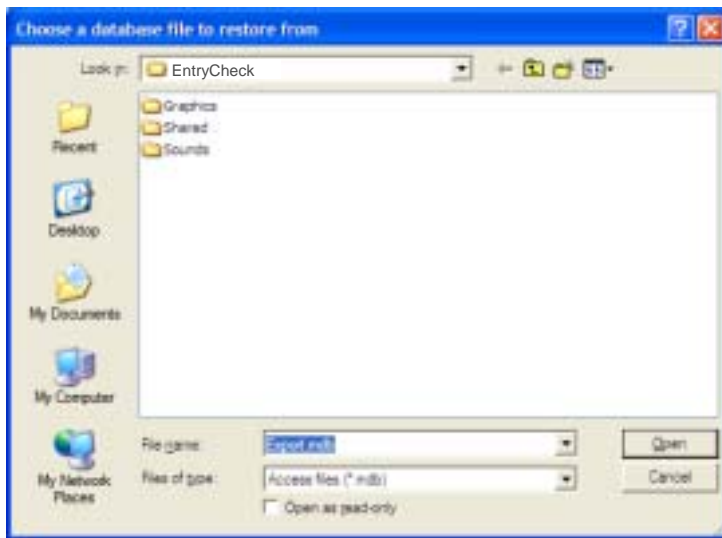


### 4.8.1 Import



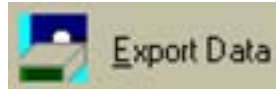
In the event that an administrator needs to import card information from a separate E3 EntryCheck™ system, the **Import** feature will override the existing E3 database.

1. By selecting **Import** from the **database** menu, the Import window appears.
2. Select the E3 features that you wish to import (see below).
3. Click the **OK** button. **Save In** window will appear with the title "**Choose a database to restore from**" with the default name **Export.mdb**.
4. Choose a database file to restore from and click the **Save** button.



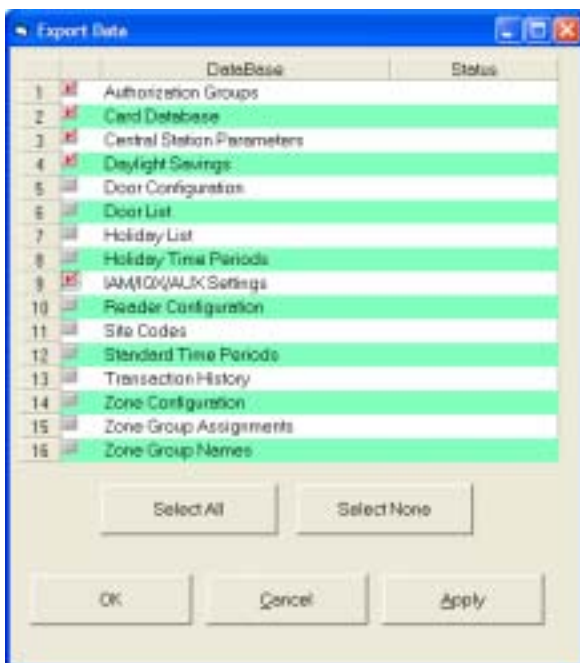
**NOTE** Importing a new database file will **OVERWRITE** the current database

## 4.8.2 Export



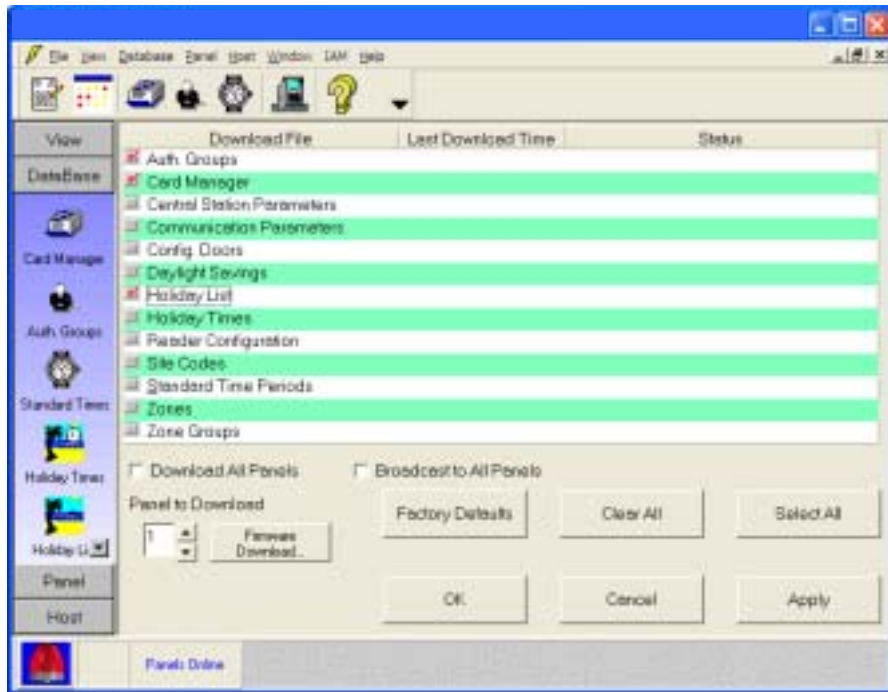
E3 EntryCheck™ has added a new feature that allows an administrator to export the existing E3 database. This is beneficial for archiving, emergency back-up, and for transferring the database to another computer.

1. By selecting **Export** from the database menu, the **Export Data** window appears.
2. Select the E3 features that you wish to export to a different copy of E3 (see below). Click the **OK** button.
3. A **Save As** window will appear with the title “**Choose a database file to back up to**” with the default name of **Export.mdb**. Choose an appropriate location for the exported database, and click the **Save** button.



**NOTE**  
Export you parameters regularly. This information is necessary for recovery.

## 4.9 Download/Broadcast



**NOTE** Cards will not operate in the panel system until the first download of the E3 EntryCheck™ system

Once the parameters have been set up, they are downloaded from this screen.

1. Select files to download
2. Select **Download All Panels** or **Broadcast to All Panels**.
3. Click the **Apply** button.

During the download, a progress bar appears near the bottom of the screen to give you the current status. **Broadcast to All Panels** will download all panels on a loop.

To set **Factory Defaults**:

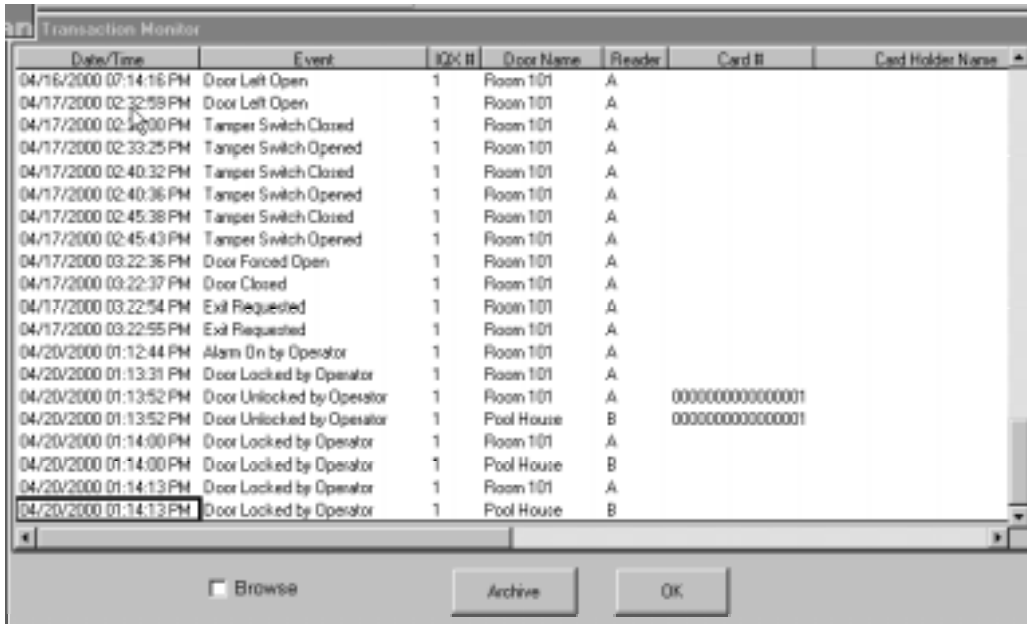
1. Select the **File** menu item
2. Click the **Factory Default** button. *Only use this button when you want return to Factory Default. It will **not download** to panel.*
3. You must exit E3, then re-enter for defaults to take effect.

**NOTE** **Firmware Download** allows upgrade for new panel application firmware, **not** to download parameters.



## 4.10 Transaction Monitor

The **Transaction Monitor** screen presents each of the transactions occurring on the system.



Date/Time	Event	ID#	Door Name	Reader	Card #	Card Holder Name
04/16/2000 07:14:16 PM	Door Left Open	1	Room 101	A		
04/17/2000 02:32:59 PM	Door Left Open	1	Room 101	A		
04/17/2000 02:33:00 PM	Tamper Switch Closed	1	Room 101	A		
04/17/2000 02:33:25 PM	Tamper Switch Opened	1	Room 101	A		
04/17/2000 02:40:32 PM	Tamper Switch Closed	1	Room 101	A		
04/17/2000 02:40:36 PM	Tamper Switch Opened	1	Room 101	A		
04/17/2000 02:45:38 PM	Tamper Switch Closed	1	Room 101	A		
04/17/2000 02:45:43 PM	Tamper Switch Opened	1	Room 101	A		
04/17/2000 03:22:36 PM	Door Forced Open	1	Room 101	A		
04/17/2000 03:22:37 PM	Door Closed	1	Room 101	A		
04/17/2000 03:22:54 PM	Exit Requested	1	Room 101	A		
04/17/2000 03:22:55 PM	Exit Requested	1	Room 101	A		
04/20/2000 01:12:44 PM	Alarm On by Operator	1	Room 101	A		
04/20/2000 01:13:31 PM	Door Locked by Operator	1	Room 101	A		
04/20/2000 01:13:52 PM	Door Unlocked by Operator	1	Room 101	A	0000000000000001	
04/20/2000 01:13:52 PM	Door Unlocked by Operator	1	Pool House	B	0000000000000001	
04/20/2000 01:14:00 PM	Door Locked by Operator	1	Room 101	A		
04/20/2000 01:14:00 PM	Door Locked by Operator	1	Pool House	B		
04/20/2000 01:14:13 PM	Door Locked by Operator	1	Room 101	A		
04/20/2000 01:14:13 PM	Door Locked by Operator	1	Pool House	B		

Check the **Browse** box to prevent the screen from updating while you scan through entries.

Archive the transactions by clicking the **Archive** button. You will be asked for the number of days prior to today to archive. To archive the last week, enter 7; to archive the last month, enter 30. Archive will remove transaction from E3. Archive located in CSV file, compatible with spreadsheet or database.

**NOTE** Archive the **Transaction Monitor** when **Transaction Monitor** refreshes *slowly*.

Select **OK** to close this screen.

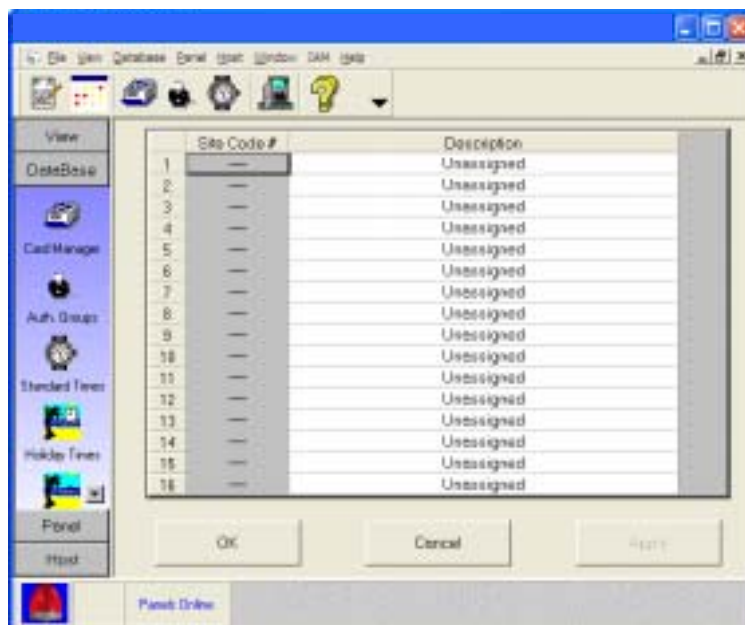
## 4.11 Site Codes



A Site Code (also known as a Facility Code) allows independent operation of each E3 EntryCheck™ system. In a multi-tenant building with multi-E3 they would run completely independent.

The Multi-Site Code feature allows up to 16 site codes on one E3. This has the added benefit to program only one E3 with or without Site Code separation.

1. Select Site codes from the Database top menu or vertical menu selection.
2. Highlight --- (dashes) in Site Code # column, and type in site code number.
3. Click on one of the **Site Code #** positions and select **Add Code**.



**Note** The original Site Codes are located on the CD and will automatically load upon installation. Additional Site Codes must be purchased through your dealer.

4. To finish the job, select **Apply** and **OK**.

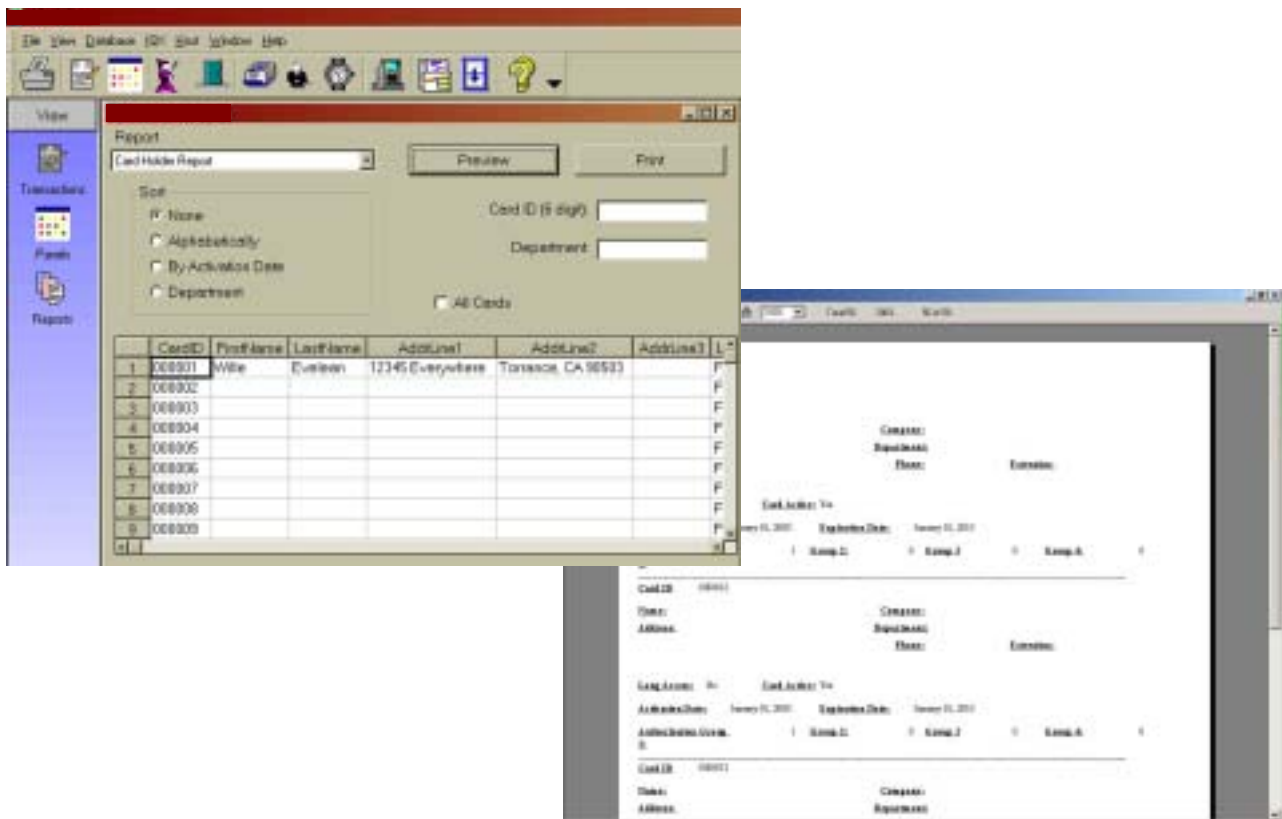
## 4.12 Generating Reports



There are five reports that can be printed in E3 EntryCheck™.

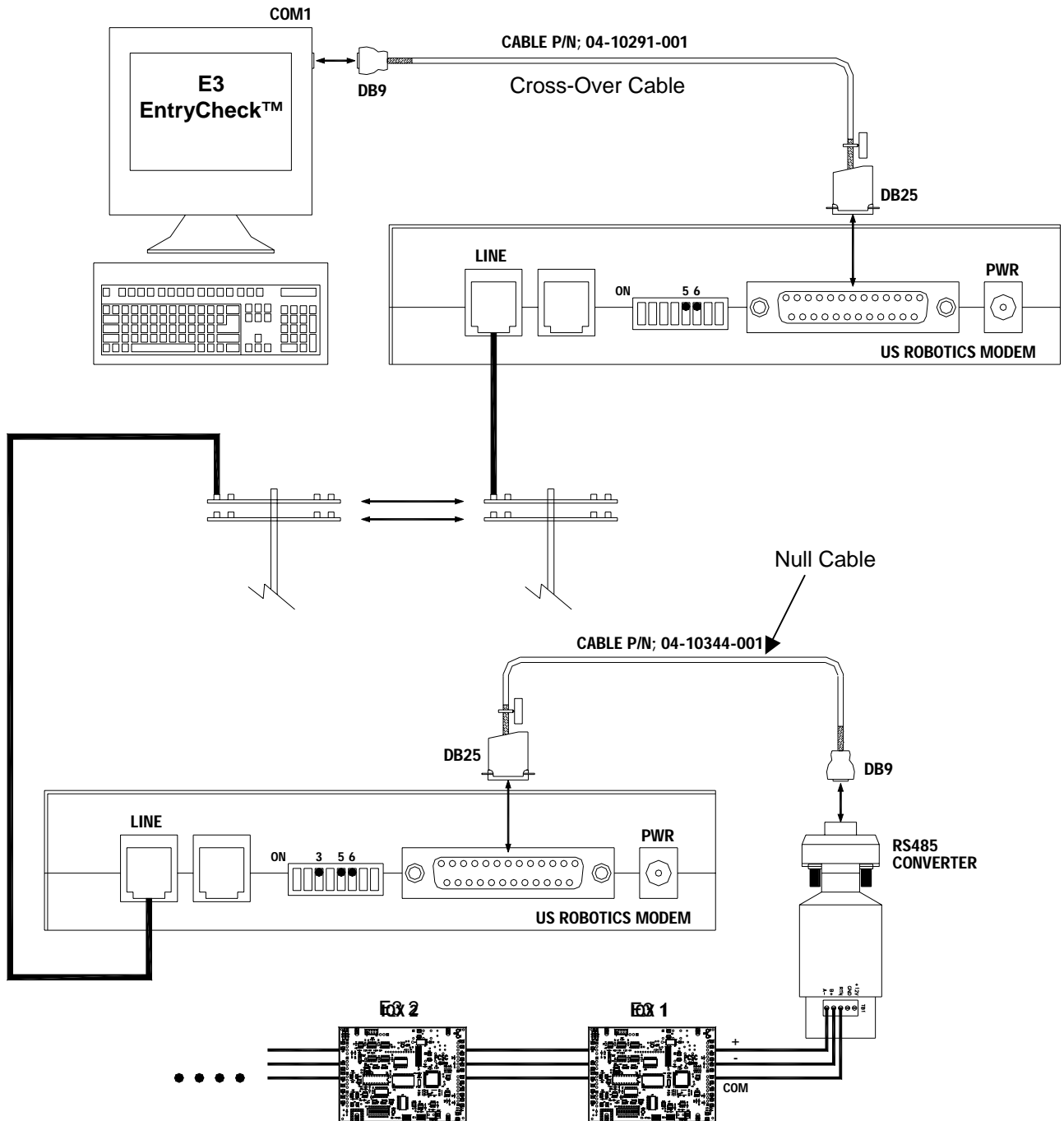
- Card Holder Report
- Holiday List
- Holiday Time Period
- Standard Time Period
- History Log

1. Select **Reports** from the **View** top menu or vertical menu selection.
2. Select the report you wish to print by highlighting it with the mouse.
3. Now select the sorting mode you want.
4. Select **Preview** to view the report on the screen before printing it out.
5. Selecting the **Print** button after previewing will show you a sample page of the report on the screen before printing it out.
6. Click on the printer icon to send the report to the default printer on your system.



# 5.0 E3 EntryCheck™ Communication

## 5.1 Single Modem; Multiple Panel (SMMP)



## **At the E3 EntryCheck™ PC**

A standard modem cable (p/n: 04-10291-001) is connected between PC DB9 - Com1 to modem DB25, and the modem to the telephone line (see diagram). Follow all modem installation instruction for proper handling and power requirements.

**NOTE** For proper function, please use a single pair of external modems 33K or greater w/ Dipswitch.

Set PC **modem** DIP Switch:

- 5 – Up (Auto Answer on First Ring)
- 6 – Up (Carrier Detect Normal)
- All other DIP Switch OFF

PC **modem** setup:

1. Power modem; reboot the PC System. Install New Hardware Found; select Standard Modem driver
2. After the Standard Modem has been installed, go to the Control Panel \ Modem \ Properties and set parameter as:

- Data bits – 7
- Parity – odd
- Stop bits – 1
- No Flow Control
- “Wait for dial tone before dialing” checked

### **5.1.1 Panel Loop**

The Panel Loop can handle 1-32 panels. All panels must be wired as directed in installation manual. RS 485 wiring is Plus (+) to Plus (+); Minus (-) to Minus (-); Com connected all Com; All Shield connected to ONE earth ground. The Panel Loop modem has special cable (p/n # 04-10344-001) to RS485 converter. Attach Panel Loop phone line to modem.

Set **Panel**:

All panels in the loop must be set to modem mode. On **Panel PCB** set dip switch #8 – ON (toward LED)  
The dip switch #8 set the panel in modem mode.

Set Loop **modem** DIP Switch:

- 3 – Up (Suppress Results Codes)
- 5 – Up (Auto Answer on First Ring)
- 6 – Up (Carrier Detect Normal)
- All other DIP Switch OFF

**WARNING:** Don't confuse the settings of DIPswitch on modem and the panel. They are not the same.

## 5.2 Modem SMMP Programming



Pull down from Top Menu **Panel** and select **Panel Communications**. In *Default Communication Type* pull down select **Modem** and Apply.

In **TAPI/Modem** enter:

- |  |   |   |
|--|---|---|
| <b>Host Primary Phone #</b>            | - | First phone number IQ Loop will dial for alarm condition.   |
| <b>Host Secondary Phone #</b>          | - | If Primary Host line does not engage then Secondary phone number will be called. If no Secondary line available, then reenter Primary Phone number. If no Secondary Phone number present then phone line will incorrectly dial second number. |
| <b>Loop Phone Number</b>               | - | Enter Phone number for panel Loop.  |
| <b>Dial button</b>                     | - | Will dial Loop Phone number.  |
| <b>Hang Up button</b>                  | - | Hang up manual the Loop Phone number.   |
| <b>Max Dial Tries Per Connection</b>   | - | Enter Maximum number of tries to connect.   |
| <b>Minutes Between Retires</b>         | - | Enter number of minutes between retries.  |
| <b>Schedules Call Interval Minutes</b> | - | Enter number of minutes between Schedule calls on Schedule days.  |
| <b>Seconds of No Traffic Limit</b>     | - | Time before phone call attempted.   |

## 5.2.1 Computer Configuration

In order to have modem communication, COM 1 of the computer must be configured.



1. Right click on **My Computer** icon and select **Properties**. In the pop up window, select the **Hardware** tab and click on **Device Manager**.
2. Find and open **Ports** and double click on **Communications Port COM 1**.

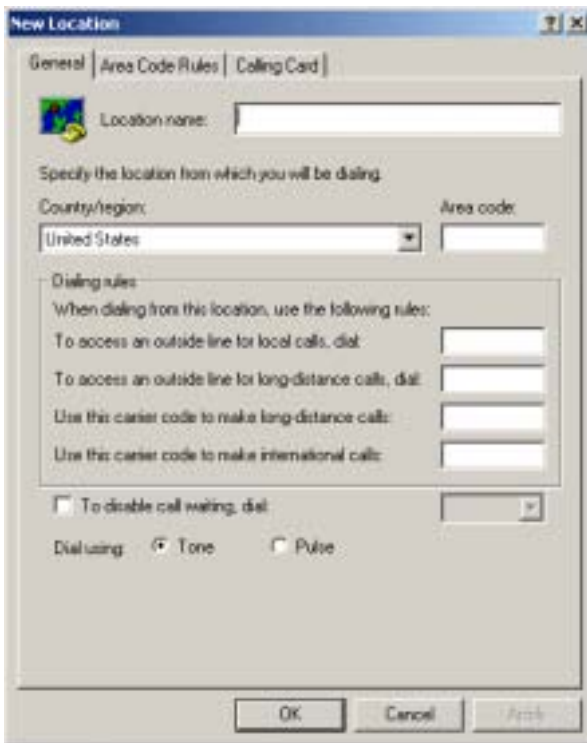


3. Select the **Port Settings** tab and change the settings to **9600** Bits per second, **7** Data bits, **Odd** Parity, **1** Stop Bit, and **None** for Flow Control. Click on **OK**.

## 5.2.2 Modem Configuration



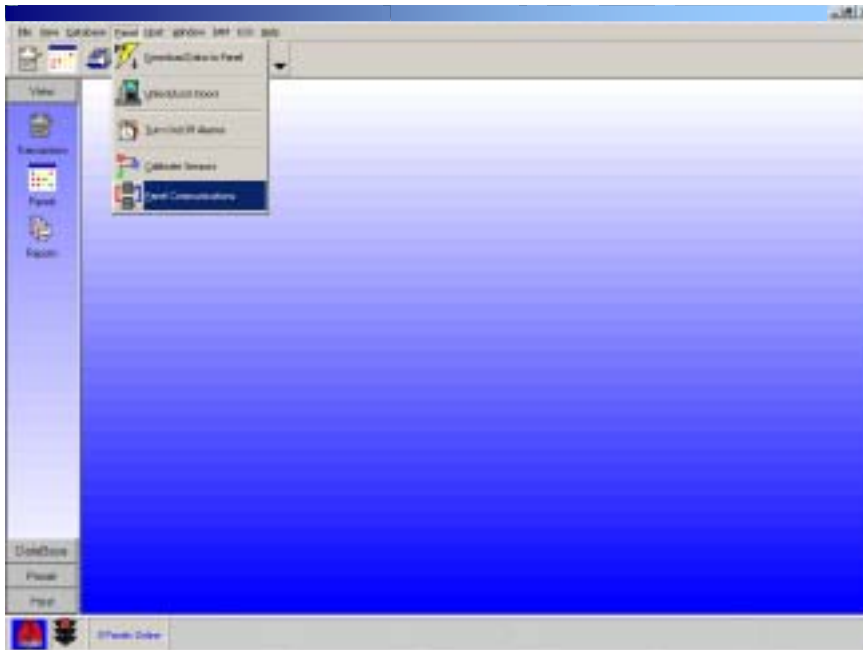
1. Click on the **Start** button at the taskbar. Click on **Settings** and open up the **Control Panel**. Double click on **Phone and Modem Options**.
2. Click on the **New** button in the **Dialing Rules** tab.



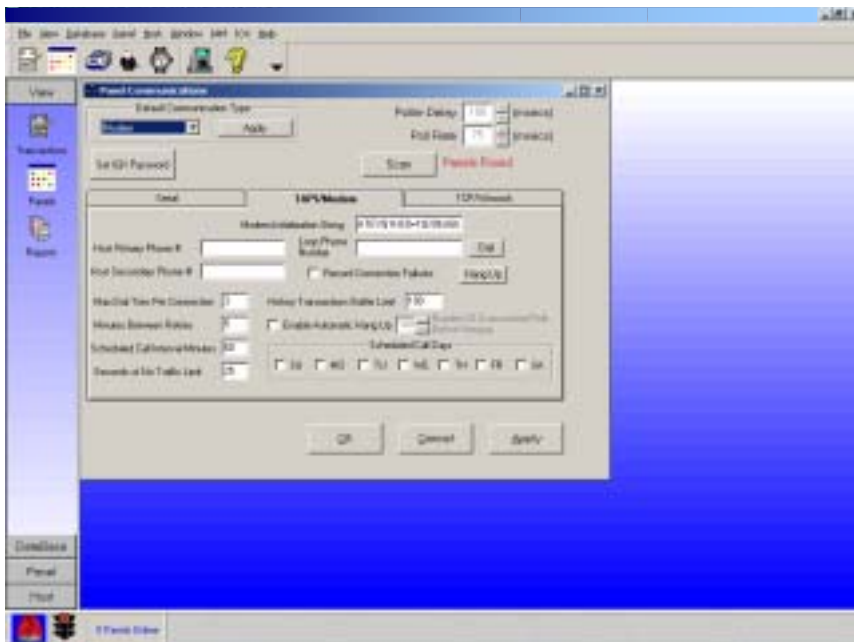
3. Type in the location name and select the Country/region and type in the area code. Make sure that the **Tone** is selected for Dial using. Click on **OK** for the changes to take effect.



### 5.2.3 E3 EntryCheck™ Panel Communications



1. In the top menu, select **Host** and click on **Panel Communications**.



2. Change Default Communication Type from Serial to **Modem** and click on the **Apply** button.
3. Click on the **TAPI/Modem** tab and in the **Loop Phone Number** box, type in the phone number to the E3 panel (This is for communication between the PC and the E3. Click on the **Dial** button to establish communication).