

START User's Guide

(Use with START version 2.9.1 or higher)

Click to:

- ☞ Review the START Main Menu
- ☞ Download Software
- ☞ View Operator History Logs
- ☞ Enter Operator Menu Settings
- ☞ Perform Operator Diagnostics

1 System Requirements

In order to download START and the operator software, you must have an internet connection to your PC. The system requirements include:

- Microsoft® Windows PC with 128MB or more memory space
- 5MB available disk space with VGA Graphics (min. resolution 800 x 600)
- RS-232 to Serial Download Cable with USB Adaptor:
HySecurity Part Number MX000667

Note: In addition, a standard USB 2.0 A – B printer cable can be used for a Smart DC Controller connection. HySecurity Part Number MX002114

✓ Before Installing START

Step 1: Use Windows Update to download and install any updates to your Windows operating system. If you need assistance with this, see Microsoft's Updating Site:

<http://www.update.microsoft.com/windowsupdate/>

Step 2: Confirm you have administrative rights by clicking the following on your computer screen: Windows start button → Control Panel → User Accounts → User Accounts
See if your name appears as an administrator. If you are the only user of a computer, you are by default the administrator. If not, you may need to consult with your company's computer administrator prior to downloading the HySecurity START program.

Step 3: Because of the security settings inherent in VISTA and Windows 7, you need to disable the "user account controls" in the operating system before uploading START software onto your laptop. Take the following steps:

In Windows 7: Go to Start Menu -> Control Panel -> User Accounts and Family Safety -> User Account -> Change User Account Control Settings. Slide the slide bar to the lowest value (toward Never Notify) with description showing Never notify me -> Press Ok -> Restart Computer.

In VISTA: Go to the Start Menu type "msconfig" and press Enter ->. In System Configuration, select the tools tab -> Scroll down till you find "Disable UAC" and single click it. Press the Launch button -> Press the Apply button -> Press OK -> Restart Computer.

Note: Any boxes appearing in the windows should be unchecked (blank).

2 First Time Users of START

To load software properly, you must first review the System Requirements and take the steps in *Before Installing START*.

First Timers – If you have never accessed or downloaded START onto your computer, you are considered a “first timer.” Follow the steps and hyperlinks to the appropriate tasks for *First Time Users of START*.

Veterans – If you have the latest version of START on your computer or laptop, you are considered a “veteran.” Follow the steps under *Veteran Users of START* and refer to the *Overview of the START Main Menu*.

✓ *First Time Users of START*

If START software has never been loaded on your computer or laptop, take the following steps:

Step 1: In the command line of your web browser, type: <http://www.hysecurity.com>

Step 2: Click **Technical Support** (left column) on the HySecurity Home page.

Step 3: Click **Download Smart Touch software**.

Step 4: Enter your user name and password. If you do not have a user name, register as an online member.

Step 5: Click Download: **START software for Smart Touch and Smart DC**. To proceed, read the End User License Agreement. Scroll through and agree to the terms by clicking, **I accept**.

Step 6: Click **RUN** to start the download process. A setup window appears.

Note: For computers using VISTA or Windows 7, refer to **Step 3** in *Before Installing START*.

Step 7: To continue, agree to the terms and follow the step-by-step instructions to complete the installation and install the USB driver.

Step 8: When the download is complete, click **Return to technical support downloads**.

Step 9: Click on the code that matches the Smart Touch/Smart DC Controller you will be connecting to in the operator.

Step 10: Scroll through the End User License Agreement. To continue, agree to the terms by clicking, **I accept**.

Note: If you have different Smart Touch/Smart DC Controller boards, continue to **Return to technical support downloads** and upload the appropriate code.

Step 11: When you are finished, close out the website window. Shortcuts for the START applications and the STC History Logs folder appear on your computer's desktop.

Step 12: Click on the START application shortcut. (The red HySecurity logo on your desktop). See the *Overview of the START Main Menu* and *Downloading Operator Code*.

3 Veteran Users of START

To load software properly, you must first review the *System Requirements* and take the steps in *Before Installing START*.

Veterans – If you have the latest version of START on your computer or laptop, you are considered a *Veteran User of START*. Follow the steps and hyperlinks to review how to download and install START and access the *START Main Menu*.

First Timers – If you have never accessed or downloaded START onto your computer, you are considered a “first timer.” Follow the steps and hyperlinks to the appropriate tasks for *First Time Users of START*.

✓ *Veteran Users of START*

If START software has been loaded on your computer, make sure you have the latest version:

Step 1: Look at the START shortcut on your desktop. The version number appears in the title.

Other ways to find the software version number include:

- Launch START and click **Download latest operator software from HySecurity**. The version number appears on the **Technical Support Software Downloads** page.
- Click on **About START** on the START Main Menu.

Step 2: If the version of START on the website differs from the version on your computer, continue with Step 3. If the versions are the same, it's time to *Prepare for the Field* and *Connect to the Operator*.

Step 3: **Take this step only if you need to update your version of START.**

Uninstall previous versions of START by clicking the following on your computer:
Windows Start→All Programs→HySecurity→Uninstall START

Note: If a prompt appears asking if you want to remove the USB/Serial adapter driver, answer YES and follow the remaining prompts.

Step 4: Restart your computer and follow the steps in *First Time Users of START*.

4 The START Main Menu

The START software needs to identify which HySecurity gate operator you are using, so you need to choose the appropriate code from the HySecurity website. To do this, you will need to:

- Make sure your PC has access to the internet. See *Before Installing START*.
- Verify that the latest version of START is loaded on your computer. See *Before Installing START*.
- Launch START by clicking on the START icon on your desktop.

Review the callouts describing the features of the START Main Menu below.

✓ Overview of the START Main Menu

Click to download START software and operator code to your computer. This button provides descriptions and version numbers of the software and code. If you are not connected to the operator, this is the button you want to use. You can save the operator code to a file and folder and upload it to the operator in the field.

Click to upload the latest software code to the gate operator. A screen appears asking you to select the appropriate board type associated with your operator. Note that your computer **must be connected** to the operator. See *Detecting a COM Port*.

Click to view operator events. Note that your computer **must be connected** to the operator. The log stores historical and real time events. You can save the log to your computer for future reference. The Smart Touch/Smart DC Controller records and date stamps operator events. This information includes the software version, operator types, service cycle count, User and Installer Menu settings, ambient temperatures, and events associated with gate operation and travel. Up to 300 events can be logged before the software begins overwriting the oldest logs. See *Viewing the Operator History Log*.

The screenshot shows the START Main Menu interface. The title bar reads "HySecurity SmartTouch Analyze & Retrieve Tool". The main content area has a blue background with the text "S·T·A·R·T Smart Touch Analyze and Retrieve Tool" in large, bold letters. Below this, there are several menu items, each with a circular icon: "Download latest operator software from HySecurity.com", "Upload software to operator", "View operator history log", "Enter operator menu settings", "Perform operator diagnostics", "About S.T.A.R.T", and "Exit". At the bottom right, there is a HySecurity logo with the tagline "Simple. Reliable. Secure.".

Click to test the proper operation of inputs. See *Viewing the Input Status Window*.

Click to view the version number and access the HySecurity website.

Click to exit START.

Click to configure the User and Installer Menus. This feature is an exceptional tool especially when you have multiple gate sites. You can make changes to the menu settings and save them as separate files, and then upload to operators in the field. Note that you **must be connected** to the operator to access the menus.

Click to access the Home page on the HySecurity website.

5 Prepare for the Field

The START Main Menu provides all the features needed to:

- Download START software and the operator code.
- Provide diagnostic tools
- Configure the operator

What you need to do is determine:

- The type of operator you want to configure in the field
- The appropriate operator code
- The User and Installer Menu settings for each operator (You can save the settings to individual files prior to going out in the field.)

✓ *Downloading Operator Code*

1. **Click to download START software and operator code to your computer.** This button provides descriptions and version numbers of the software and code. If you are not connected to the operator, this is the button you want to use. If you do not have internet access at the field site, you can save the operator code to a folder and upload it to the operator in the field.

✓ *Configuring Menu Settings*

2. **Click to configure the User and Installer Menus.** This feature is an exceptional tool especially when you have multiple gate sites. You can make changes to the menu settings and save them as separate files, and then upload the individual files to the appropriate operators in the field. Note that your computer must be connected to the operator. See *Configuring Menu Settings*.



6 Connect to the Operator

To access the operator and upload code, you must:

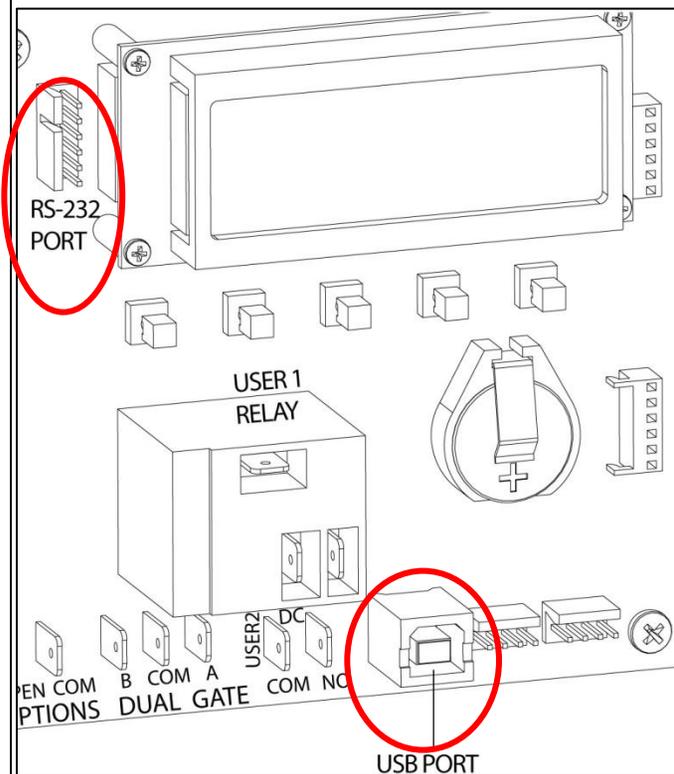
Connect a communications cable from your PC to the communications port on the Smart Touch Controller (STC) or Smart DC Controller (SDC) board.

Note: On STC Classic and New Generation boards, make sure the RS-232 cable connects to the RS-232 port. On the Classic board, two cables connect to the operator during the upload process (one to the RS-232 and the other to the Wiegand port). See illustration below.

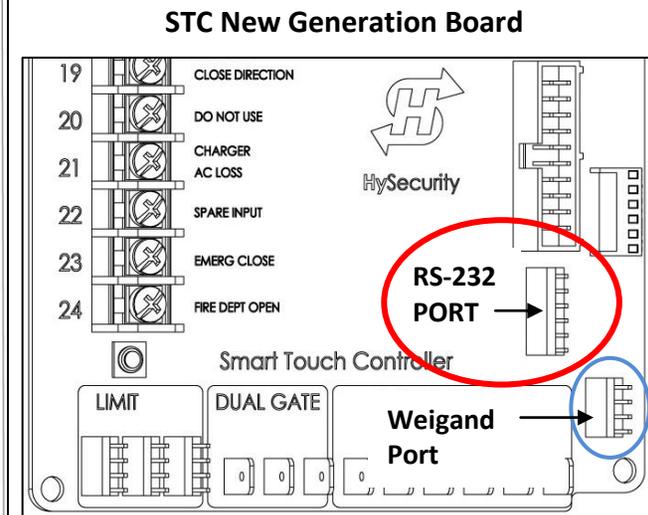
STC board connections require a serial (RS-232) port on your computer or you can use a USB-to-RS-232 adapter if your PC does not have a serial port. The HySecurity Download Cable Kit – P/N MX000667 – contains the cable plus a USB to RS-232 adapter.

SDC boards can also use a standard USB printer cable which provides faster uploads than the serial connection. HySecurity USB cable – P/N MX002114.

✓ *Connecting the Communications Cable*



**Smart DC Controller (SDC)
SwingSmart & SlideSmart**



Note: The STC New Generation board is shown above. On the Classic STC board, the RS-232 port is located to the right of the **Weigand Port**. The download cable kit (MX000667) has two connectors. The 4-pin Weigand connector must be attached to the Weigand port during the upload process when transferring operator code to the Classic STC board. After the transfer process is complete, you need to disconnect the 4-pin Weigand

7 Select a COM Port

To detect and select a COM port, you must:

Step 1: Attach a communications cable from your PC to the communications port on the STC or SDC board. See *Connecting the Communications Cable*. Note that you need to exit and re-open START any time one of the following items change.

Operator type STC/SDC board type COM port being used

Step 2: From the START Main Menu, clicking on any one of the following:
Upload software to operator View operator history log
Enter operator menu settings Perform operator diagnostics

Step 3: When the Board Type screen appears, select the correct board type, and then click OK.

Note: The COM port should automatically appear in the “Manual Port Selection” field. If it doesn’t or you experience other difficulty in the uploading process, refer to *Troubleshooting*.

- ✓ Selecting the Board Type
- ✓ Detecting a COM Port
- ✓ Selecting a COM Port

The screenshot displays the START software interface with several key elements highlighted:

- Checking for STC... Dialog:** A dialog box titled "Checking for STC..." with a sub-dialog "Automatic Port Selection - COM3". The "Select Board Type" section has two radio buttons: "New Generation / Smart DC Controller" (selected) and "Classic". A red circle highlights this section. Below it is an "OK" button. A text box below the dialog says: "1. Click within the circle to select board type. 2. Click OK." An information icon (i) is also present, with a callout: "Click i to view COM ports."
- Comm port is not detected Dialog:** A dialog box titled "Comm port is not detected" with a sub-dialog "Automatic Port Selection". It has the same "Select Board Type" section. Below it is a "Manual Port Selection" dropdown menu showing a list of COM ports (COM1 through COM8). A red circle highlights the dropdown, with a callout: "Manual COM port selection drop down menu."
- Unable to detect the comm port Dialog:** A dialog box titled "Unable to detect the comm port" with a question mark icon. The text reads: "Unable to connect to Smart Touch Controller. Please check the cable connection from PC to Smart Touch Controller and carefully verify that the six pin connector is properly connected to the STC board. Also verify the board type and cycle the power to the controller. Try auto-detection again?" There are "Yes" and "No" buttons. A callout points to the "Yes" button: "If this screen appears, tighten cable connections, and click Yes. If this screen reappears, click No and select the COM port manually. If you continue to have problems with the connection, see *Troubleshooting*."

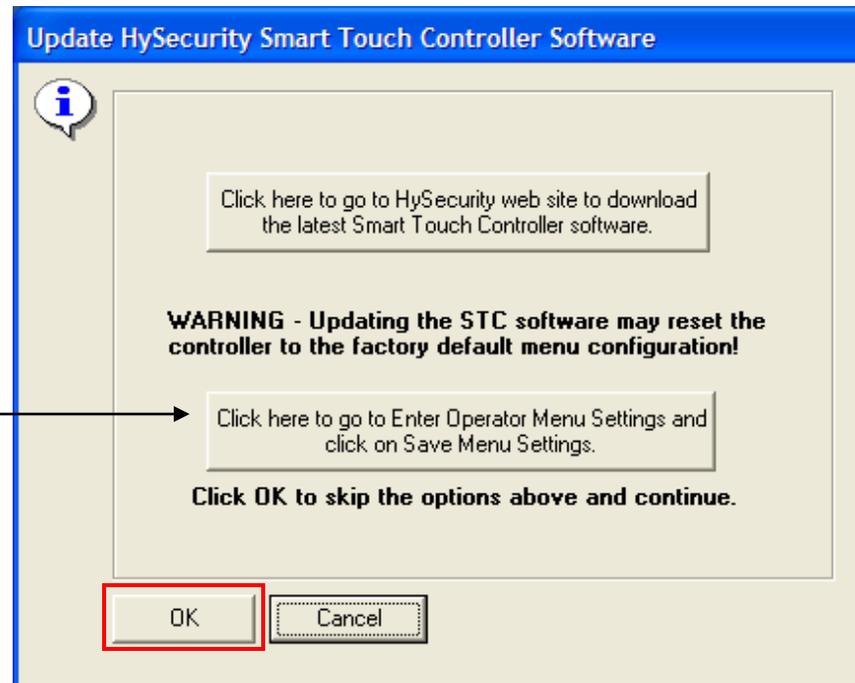
8 Upload Operator Code

A verification screen appears after you press OK on the Port Selection screen. It gives you three choices:

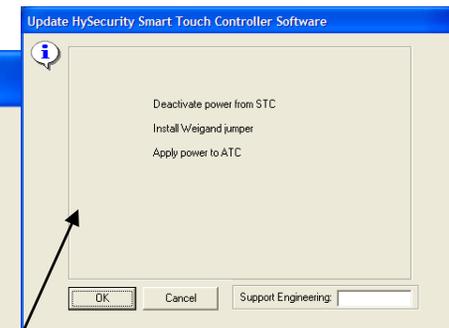
- Go to the HySecurity website to download the latest operator code. (If you haven't already done so, review the process in *First Time Users of START*.)
- Save the operator's current User & Installer Menu settings. It is highly recommended that you save the current menu settings in a file on your PC. When you upload the operator's code, it overwrites existing settings and resets the User and Installer Menus to factory defaults. If you save the current settings to a file, you can reload the file once the new operator code is uploaded. See *Retrieving and Uploading Menu Settings*.
- Click OK to begin uploading operator code to the STC or SDC board..

✓ Uploading Operator Code

Note: If you wish to save the current menu settings, click here prior to clicking on OK. See *Saving Menu Settings to a File*.



This screen appears when your computer is connected to a New Generation STC or SDC board. Make sure the operator has power, and then press OK.



This screen appears when your computer is connected to a Classic STC board. Perform the three steps, and then press OK. **Note:** ATC is a typo and should state STC.



8 Upload Operator Code, cont

CAUTION

- Save your current menu settings. See *Saving Menu Settings to a File*.
- Upload times between USB and RS-232 cable connections vary greatly. When you use a USB cable, the transfer process usually takes less than a minute. The transfer of code to the operator using an RS-232 connection can take as long as 7 minutes. **DO NOT cancel during the uploading process!** If an interruption occurs during the upload, SDC boards cannot be reconfigured in the field and must be returned to the factory. STC boards are field-reconfigurable, but require a call to HySecurity Technical Support. See *Troubleshooting*.
- Check that power is available to the operator. Check the battery on your PC.
- **DO NOT** click on **Stop** while the upload is underway!

✓ *Uploading Operator Code, cont.*



Update HySecurity Smart Touch Controller Software

Click here to go to HySecurity web site to download the latest Smart Touch Controller software.

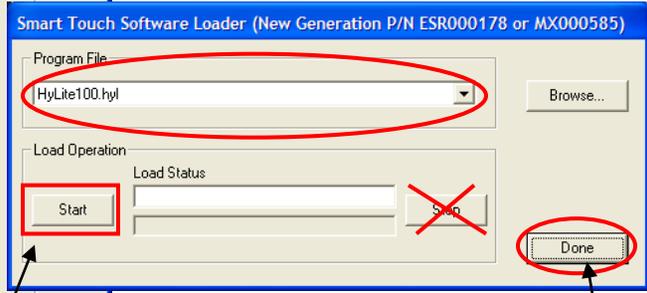
WARNING - Updating the STC software may reset the controller to the factory default menu configuration!

Click here to go to Enter Operator Menu Settings and click on Save Menu Settings.

Click OK to skip the options above and continue.

OK Cancel

1. Click **OK**. The Software Loader screen appears. The program file is highlighted in the drop down menu.



Smart Touch Software Loader (New Generation P/N ESR000178 or MX000585)

Program File
HyLite100.hyl Browse...

Load Operation
Load Status
Start Stop

Done

2. Click **Start** to upload the operator code. Follow the prompts that appear.

Note: The Smart Touch Loader Software screen varies with the board type and the STC software selected. If a program file does not appear, click **Browse** and navigate to the folder location on your computer where the operator software file is located. (Recently downloaded operator code may appear as a shortcut on your desktop.) Highlight the file and click **Open**. The Loader screen appears. Click **Start**.

3. Click **OK** on the Load Complete screen. If the loader screen does not close automatically, click **Done**. The Start Main Menu remains displayed.

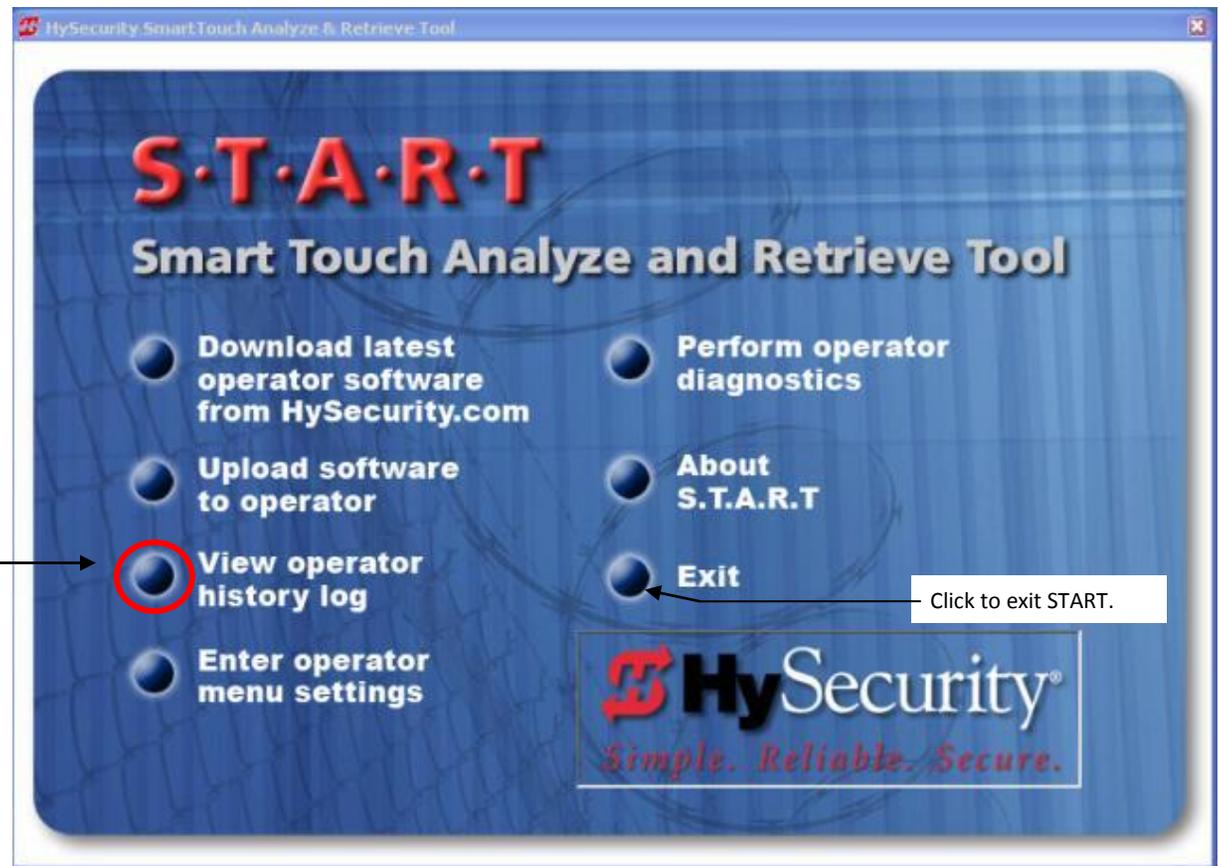
9 View History Log

CAUTION

- If you are connected to an STC Classic board, unplug the Weigand connector after uploading operator code.
- Leave the RS-232 (or USB) cable attached to run diagnostics, change menu settings, or view the operator history log.

✓ *Viewing the Operator History Log*

Click to view operator events. The log stores historical and real time events. You can save the log to your computer for future reference. The Smart Touch/Smart DC Controller records and date stamps operator events. This information includes the software version, operator type, service cycle count, User and Installer Menus that have been changed from their default settings, ambient temperatures, and events associated with gate operation and travel. The software begins overwriting the oldest history logs once 300 events are saved to the log file. See *Uploading the Operator History Log*.



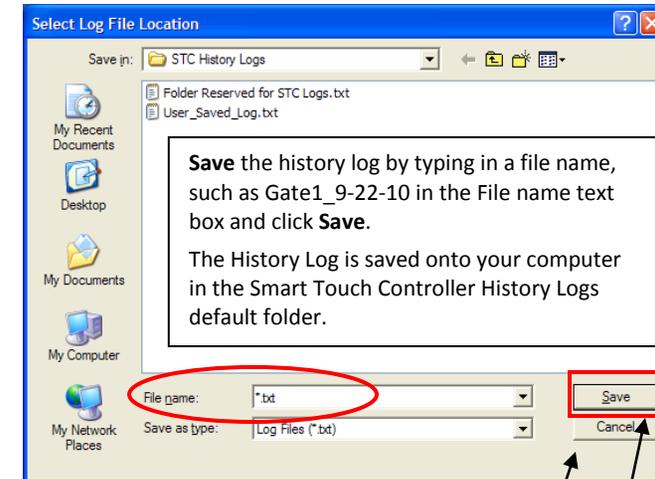
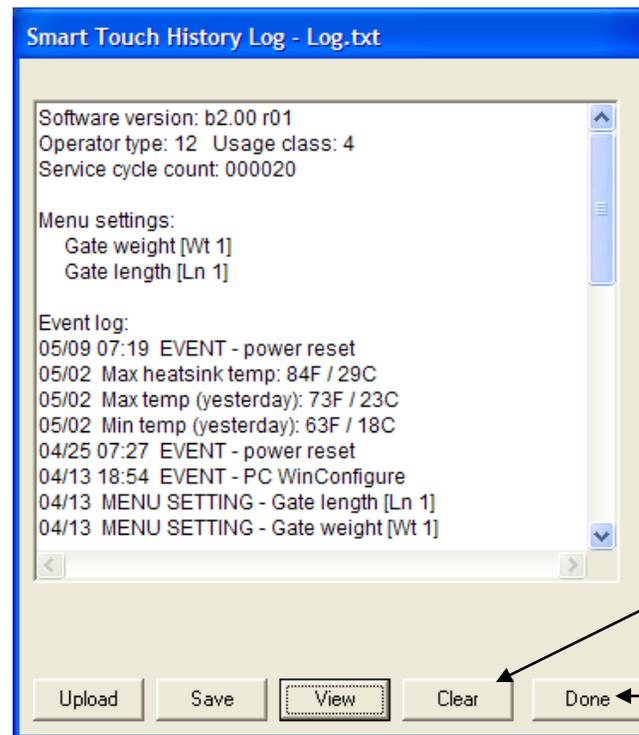
9 View History Log, cont.

The Smart Touch/Smart DC Controller records all operator events. This list is helpful in diagnosing gate operation issues. When you click View Operator History Log from the START Main Menu, the following information is available:

- Software version of the operator code, operator type, usage class and service cycle count.
- Menu settings provide items, such as gate weight that have been changed from the factory defaults.
- History Log lists the events and faults that have occurred. The most recent event appears at the top of the list. The History Log includes the date and time if the clock is set and may indicate the ambient temperature.

An example of the History Log is shown and its features described below.

- ✓ Viewing the Operator History Log
- ✓ Uploading the Operator History Log
- ✓ Saving the Operator History Log
- ✓ Clearing the Operator History Log



- Click **Clear** to erase the log data currently stored on the STC or SDC board. Once cleared, the data cannot be retrieved.
- Click **Done** to stop the upload process or exit the History Log screen.
- Click **View** to select a stored log file and **Open** it. To return to the Smart Touch History Log window, click **Cancel**.
- Click **Save** to save the current log history to a computer file.
- Click **Upload** to display the current log history. You can save the existing event log to a file on your computer by clicking the **Save** button. You can stop the upload process by clicking **Done**. Whatever event data uploaded will be viewable on the screen.

10 Configure Menu Settings

The Operator Menu Settings window displays three tabs:

- Time and Date
- User Menu
- Installer Menu

This menu feature provides an exceptional tool especially when you have multiple gate sites. You can make changes to the menu settings and save them as separate files, and then upload the individual files to the appropriate operators in the field. See *Saving Menu Settings to a File*.

Important: Your computer must be connected to the operator. See *Detecting a COM Port*.

✓ Accessing the User & Installer Menus

✓ Changing the Time & Date

Click to configure the User and Installer Menus and set the time and date.



10 Configure Menu Settings, cont.

The Operator Menu Settings window displays three tabs:

- Time and Date – See *Changing the Time & Date*.
- User Menu & Installer Menu – Menu selections associated with the board-type appear when you click these tabs. Within the Installer Menu, a second tab (Part 2) provides additional selections.

Important: *Your computer must be connected to the operator. See Detecting a COM Port. If you haven't already done so, it is highly recommended to save the current menu settings as a file on your computer. See Saving Menu Settings to a File and Retrieving and Uploading Menu Settings.*

✓ Changing the Menu Configurations

Click to configure the User and Installer Menus.

Online Help is available. Click on the field description. (uC – Usage Class shown as an example.) Helpful information appears in this window. In the User Menu, float the mouse pointer over the field to view online help.

To change settings:

1. Click the drop-down arrow to the right of an individual item.
2. Click the setting you want.

As you make changes to individual fields, other boxes may appear or disappear, depending on the association. For example, the SS field (IES Stop only) appears only when the usage class is set to 4. Additionally, the field values may be limited or expanded based on the changes in other entries.

3. To upload the new menu settings into the Smart Touch/Smart DC Controller, click **Done**. If you click **Cancel**, all menu changes are ignored and no changes are loaded into the control board. Both User and Installer menu settings are saved.

10 Configure Menu Settings, cont.



A field for the Operator Type (Ot) appears on the Part 2 tab of the Installer Menu.

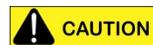
Setting the Operator Type determines the gate operating logic, which affects how the operator performs. The logic is different for each operator type.

If you change the Operator Type, make sure to match the abbreviated code with the model of the operator.

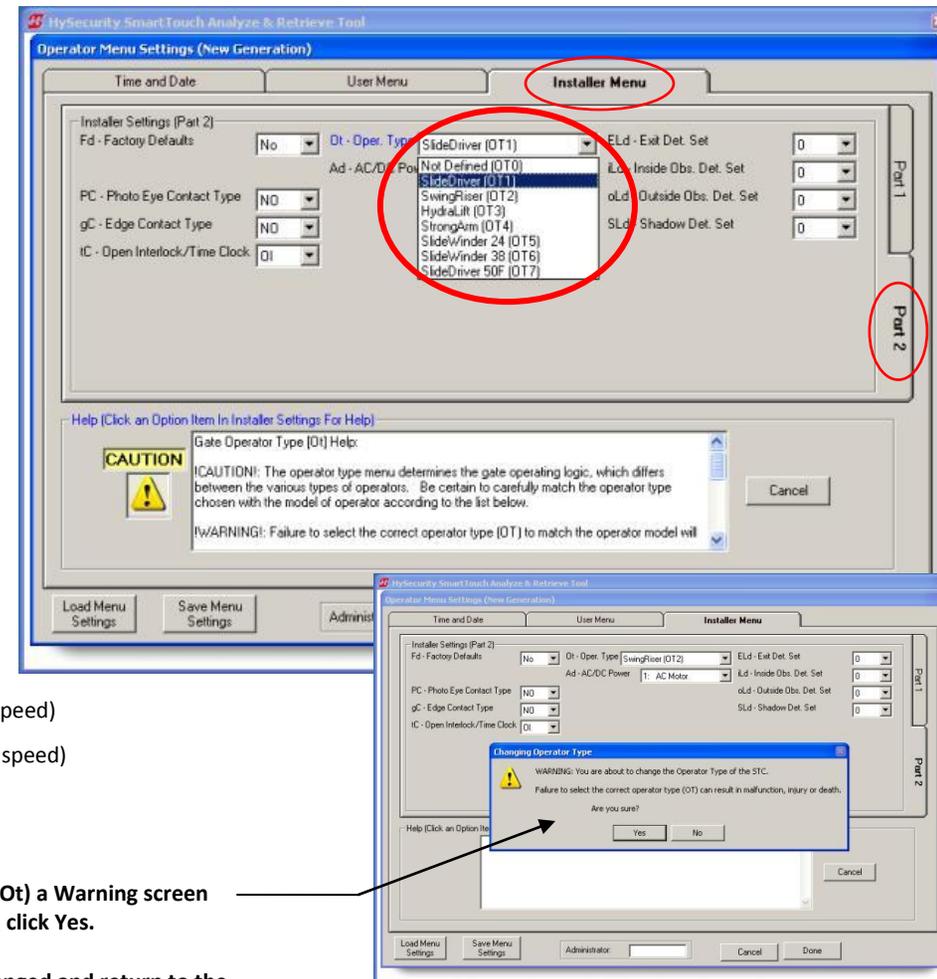
✓ Changing the Operator Type

Operator Type Settings

- OT0** = no operator identified
- OT1** = 222 SlideDriver
All models except 50VF models.
- OT2** = HRG SwingRiser - All models
- OT3** = HVG HydraLift - All models
- OT4** = HTG StrongArm - All models
- OT5** = SlideWinder (24 foot)
- OT6** = SlideWinder (38 foot)
- OT7** = SlideDriver 50VF
All variable frequency drive models
- OT12** = SwingSmart - All models
- OT15** = SlideSmart DC 15 (1ft/s gate speed)
- OT16** = SlideSmart DC 10F (2ft/s gate speed)



- If you change the Operator Type (Ot) a Warning screen appears. Read it and, to continue, click Yes.
- To leave the Operator Type unchanged and return to the Installer Menu tab, click No.



10 Configure Menu Settings, cont.



A field for the AC/DC Power (Ad) appears on the Part 2 tab of the Installer Menu beneath the Operator Type.

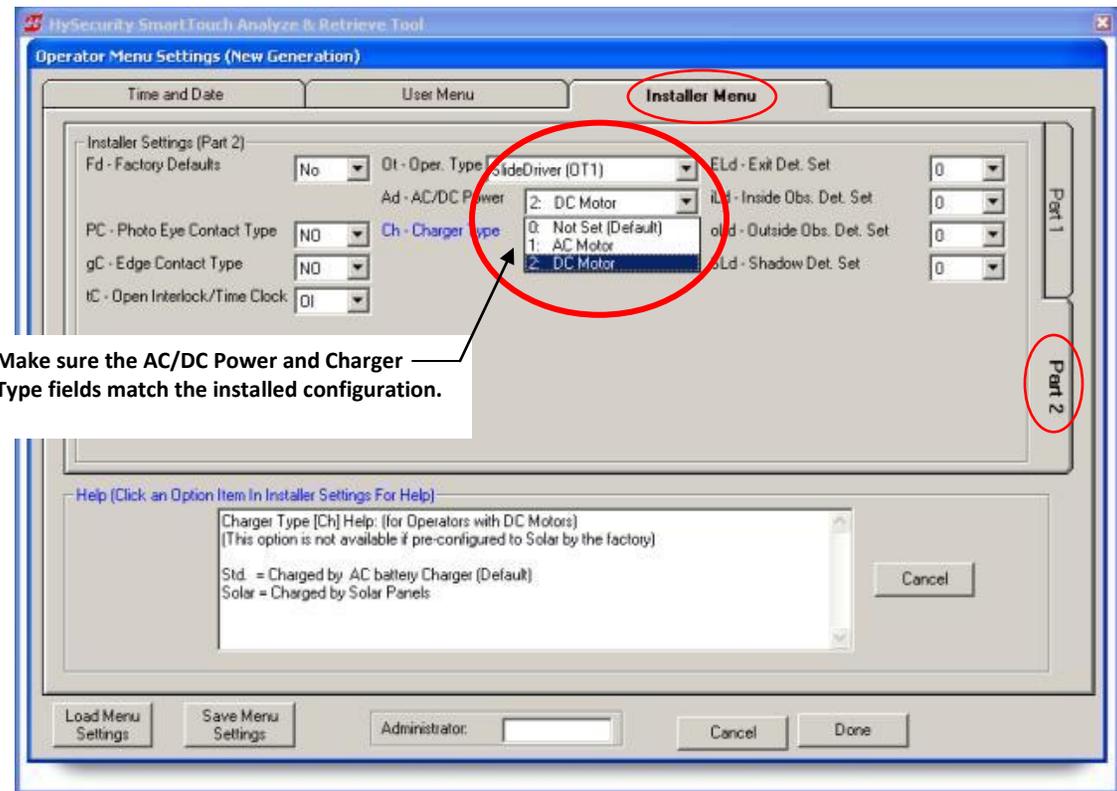
Setting the AC/DC Power affects the gate operating logic and how the operator performs. Make sure you set the proper power type for the gate operator.

When you change the AC/DC power field to DC, the Charger Type field appears beneath it. For example, if you have a solar-powered operator, this is the field you would use to designate the charger type as solar.

- ✓ Addressing the Power Type
- ✓ Setting the Charger Type



Make sure the AC/DC Power and Charger Type fields match the installed configuration.



11 Save Menu Settings

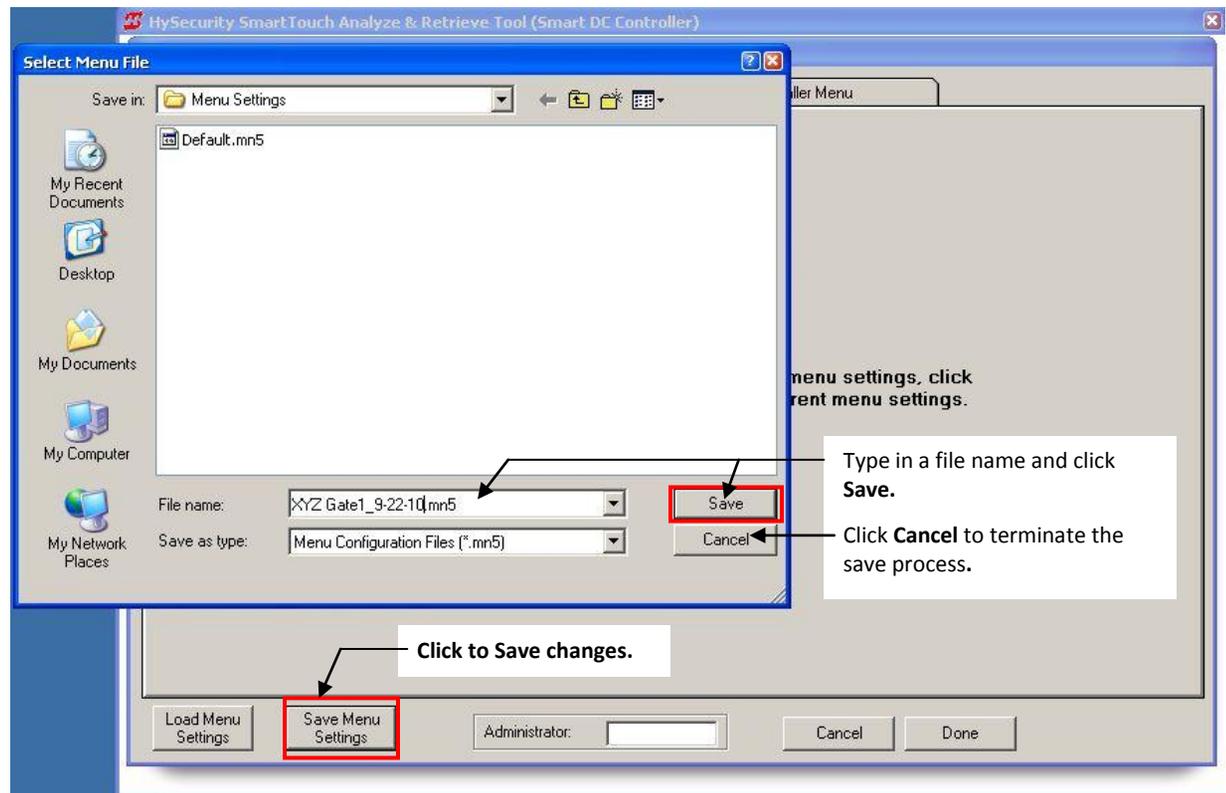
You can save multiple configurations of the User and Installer Menus for later retrieval. To do this you must create one file name for each associated configuration you want to save before exiting the Operator Menu Settings screen.

Note: The User and Installer Menu settings are combined into a single configuration. You cannot separate the User settings from the Installer menu settings.

For example, at one site you have four gates and the maintenance crew has requested new close timer settings for each gate. One of the gates has also been hit by lightning and the controller board needs to be replaced. You can connect to one operator, use START to set up the menu configuration, save the configuration to a file, such as XYZ Gates_9-22-10 and use that file to upload to all four gates. See *Retrieving and Uploading Menu Settings*.

Note: To upload the settings to the operator, a connection is required. See *Connect to the Operator*.

✓ *Saving Menu Settings to a File*



12 Retrieve Menu Settings

To retrieve menu settings, you must first save them to a file. See *Saving Menu Settings to a File*.

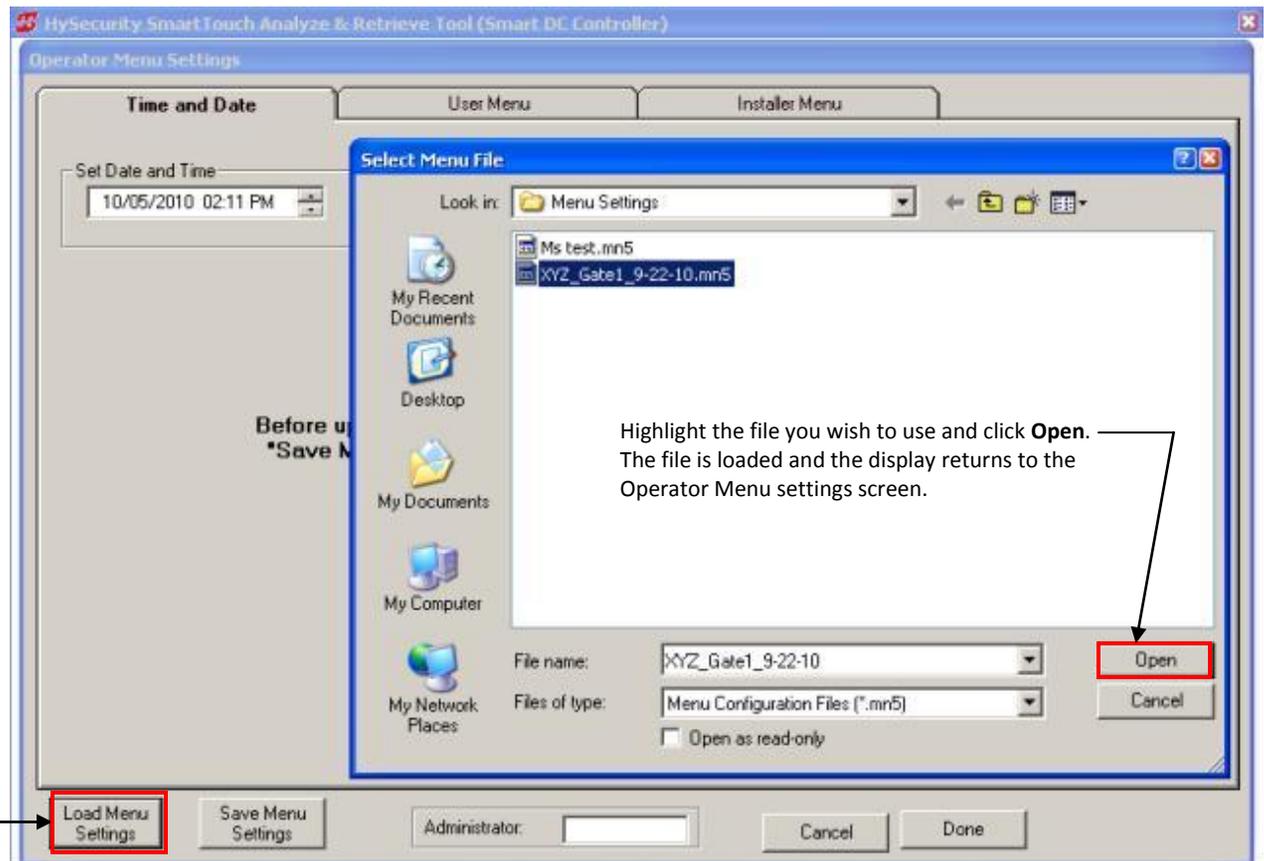
Menu settings saved to a file can be retrieved from a folder for viewing, changing, and transferring to the Smart Touch/Smart DC Controller.

- If you are connected to an STC or SDC board, leave the RS-232 (or USB) cable attached.
- If you are NOT connected to the operator, see *Connect to the Operator* before proceeding with the upload process.

Note: Once you press Open, the process is rather instantaneous and the Operator Menu Setting screen appears indicating the upload is complete.

✓ *Retrieving and Uploading Menu Settings*

Click to load the menu settings. Note that any of the three tabs can be in the forefront. Clicking on the Load Menu Settings button causes the Select Menu File screen to appear.



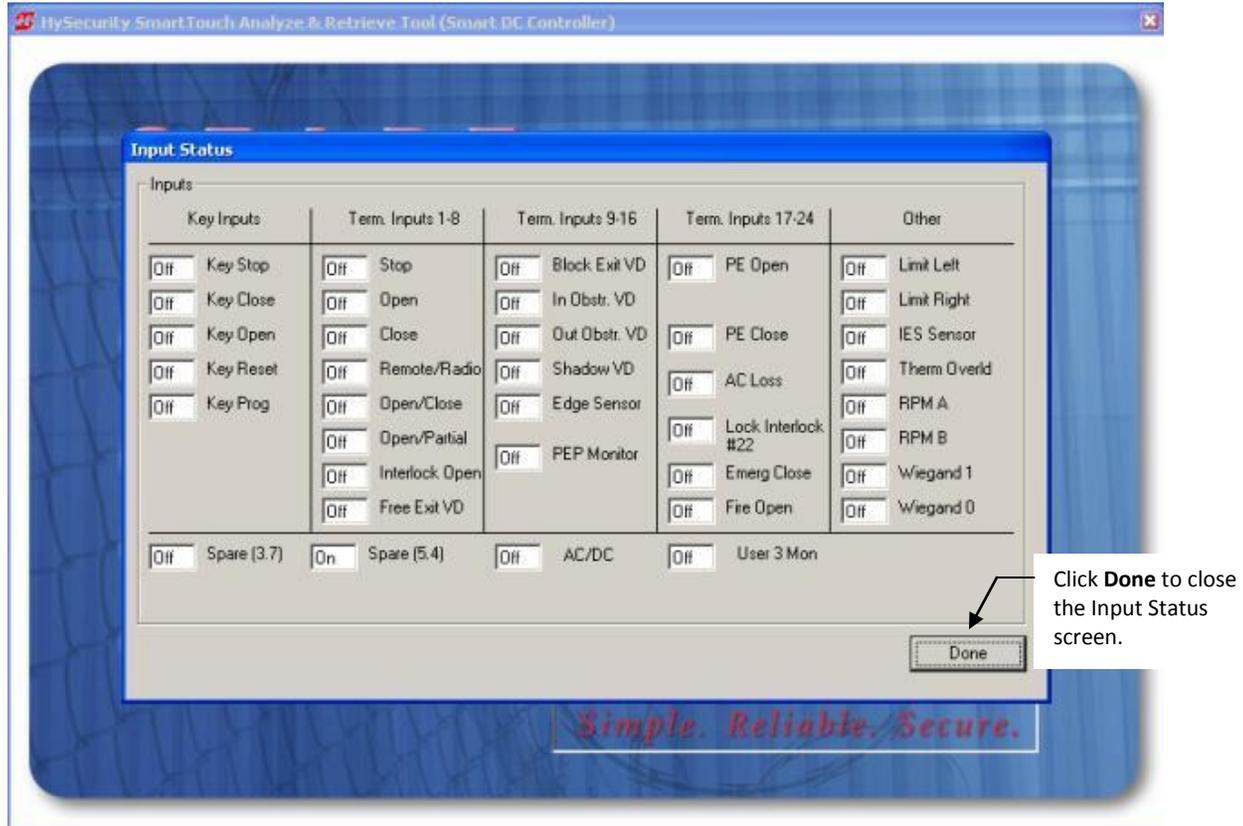
13 Diagnostic Tools

START provides an operator diagnostic feature for New Generation STC boards and for the SDC boards.

You can test the viability of each input on the STC or SDC board. This feature is useful when setting up a new operator, replacing the controller, or troubleshooting.

An example of the diagnostic feature and the Input Status Menu is shown below.

✓ *Viewing the Input Status Window*



The **Input Status** fields are automatically updated with any status change. By monitoring this screen, you can see if commands to Open and/or Close are being received. You can also identify any external devices such as loop detectors or edges that may be preventing operation. The information on this screen is in “real time” and must be observed to notice changes.

When you wish to close this display, click **Done**.

14 Uninstall START Software

The reasons to uninstall START software include the following:

- START software has been revised and an update produced. If a newer version of START exists, you need to remove (uninstall) the version of software that exists on your computer before you download the newer version.
- Difficulty getting START to run properly. Microsoft Windows® operating systems can produce varying results when interfacing with START software. Be sure to follow the instructions found in *System Requirements* prior to uninstalling and reloading the START software.

✓ *Uninstalling START software*

Step 1: Click the Microsoft Windows *start* button.

Step 2: Click **All Programs**.

Step 3: Highlight **HySecurity**.

Step 4: Click **Uninstall START** – Smart Touch Analysis and Retrieve Tool in the drop down menu.

An uninstaller window appears.

Step 5: Follow the step-by-step instructions that appear in the window.

Step 6: Remove all installed features.

Step 7: Finish.

When you finish the uninstall process, the START and Smart Touch/Smart DC Controller History Logs shortcuts are removed from the computer's desktop. User saved configuration files and user downloaded Smart Touch/Smart DC Controller software files remain intact and are not removed from their file folders.

15 Exiting START

It is easy to end your START session by simply clicking the **Exit** button on the START Main Menu.

✓ *Exiting START Software*



Click **Exit** to terminate the program and close the START window.

16 Troubleshooting

Most often errors that occur during the upload process are indicated by online help screens, such as the “undetectable COM port” screen shown in *Detecting a COM Port*. The issues stem from poor cable connection, incompatible software and hardware, or 64-bit systems versus 32-bit computer systems.

To resolve the problem, follow the instructions on the screen. For more difficult issues, follow the steps below. If you are having difficulty resolving the issue after reviewing the information below, contact Technical Support at 800-321-9947.

✓ Troubleshooting



Prior to uploading operator code,

- Check that power is available to the operator and check the battery on your PC.
- Save your current menu settings. See *Saving Menu Settings to a File*.
- **DO NOT** click on **Stop** while the upload is underway! If an interruption occurs during the upload, SDC boards cannot be reconfigured in the field and must be returned to the factory. STC boards are field-reconfigurable, but require a call to HySecurity Technical Support (800-321-9947).

Software compatibility:

Review the information found in *Before Installing START*.

Look at the START shortcut on your desktop (the version number appears in the title). Make sure it is the latest version. If not, follow the instructions found in *Veteran Users of START*.

Drivers and connectors:

Incompatible issues may surface with older or outdated adapter connections. Use a current USB connection or be sure you have the latest drivers for your USB-RS-232 serial adapter. See *Connecting the Communications Cable*.

Restart:

Oftentimes issues can be resolved by simply closing out START, disconnecting the communications cable, and cycling the power on the operator. Then, reconnect the communications cable, making sure the adapters are secure and any pin connections are properly oriented. Turn on power to the operator, press RESET on the STC or SDC board, and launch START.

STC Classic Board:

The Weigard cable connection must be attached to the Weigard port during the upload process. See *Connecting the Communications Cable*.

Table of Contents

The Table of Contents appears at the end of this manual as a reference piece. If you are viewing the manual online, you can click on the titles below to jump to the page you are interested in. A hyperlink to the Table of Contents is also provided in the page footer.

START User's Guide.....	1
✓ Before Installing START	1
✓ First Time Users of START	2
✓ Veteran Users of START	3
✓ Overview of the START Main Menu.....	4
✓ Downloading Operator Code	5
✓ Configuring Menu Settings.....	5
✓ Connecting the Communications Cable.....	6
✓ Selecting the Board Type	7
✓ Detecting a COM Port	7
✓ Selecting a COM Port	7
✓ Uploading Operator Code	8
✓ Uploading Operator Code, cont.....	9
✓ Viewing the Operator History Log.....	10
✓ Viewing the Operator History Log.....	11
✓ Uploading the Operator History Log.....	11
✓ Saving the Operator History Log	11
✓ Clearing the Operator History Log	11
✓ Accessing the User & Installer Menus	12
✓ Changing the Time & Date	12
✓ Changing the Menu Configurations	13
✓ Changing the Operator Type.....	14
✓ Addressing the Power Type	15
✓ Setting the Charger Type	15
✓ Saving Menu Settings to a File	16
✓ Retrieving and Uploading Menu Settings	17
✓ Viewing the Input Status Window	18
✓ Uninstalling START software	19
✓ Exiting START Software	20
✓ Troubleshooting.....	21