Display & Menu Options

Highly sophisticated software, on your gate operator, provides three different modes of operation: *run*, menu (*program*), and *fault*. How to navigate using the Smart Touch Controller (STC) keypad, interpret status display codes and program the operator is found in your gate operator's product manual. A few highlights, to get you started, are provided in this section along with information about the AC Power Supply with HyInverter AC display and control panel.

CAUTION

Keep your operator current with the most up-to-date software version. Use of AC Power Supply with HyInverter AC requires a software version of H4.36 and S.T.A.R.T. version 2.98 or higher.

Initial Setup

Once you have completed the installation, attached the wired accessories and turned the power ON, you're ready to program the operator. Two different approaches exist:

- Connect a laptop computer to the serial (RS-232) port, check for the most current software version and then set the operator menu configurations via the START software.

  NOTE: Use a laptop computer at your place of business to conveniently download the free START software and most current software version from www.hysecurity.com before heading out into the field. This makes it easy to adjust settings using a laptop.

- Manually navigate through the User and Installer Menus using the STC keypad. The instructions for performing this second option are provided in this section.

After installing a new operator, an initial sequence of set up prompts appears when you first turn ON the Control Box power switch. You need to answer the prompts before the gate operator will run. The operator is in "MENU" mode.

UC = Usage Class. Set the usage class to 1, 2, 3, or 4 depending on the site.

Four different vehicular usage classes are defined by UL 325. Information about the classes can be found online through DASMA Technical Data Sheets www.dasma.com or UL 325 www.ul.com

S1, S2, and S3 = Contact and non-contact external entrapment protection sensor inputs that may require monitoring per installation site and UL 325 Standard of Safety requirements.

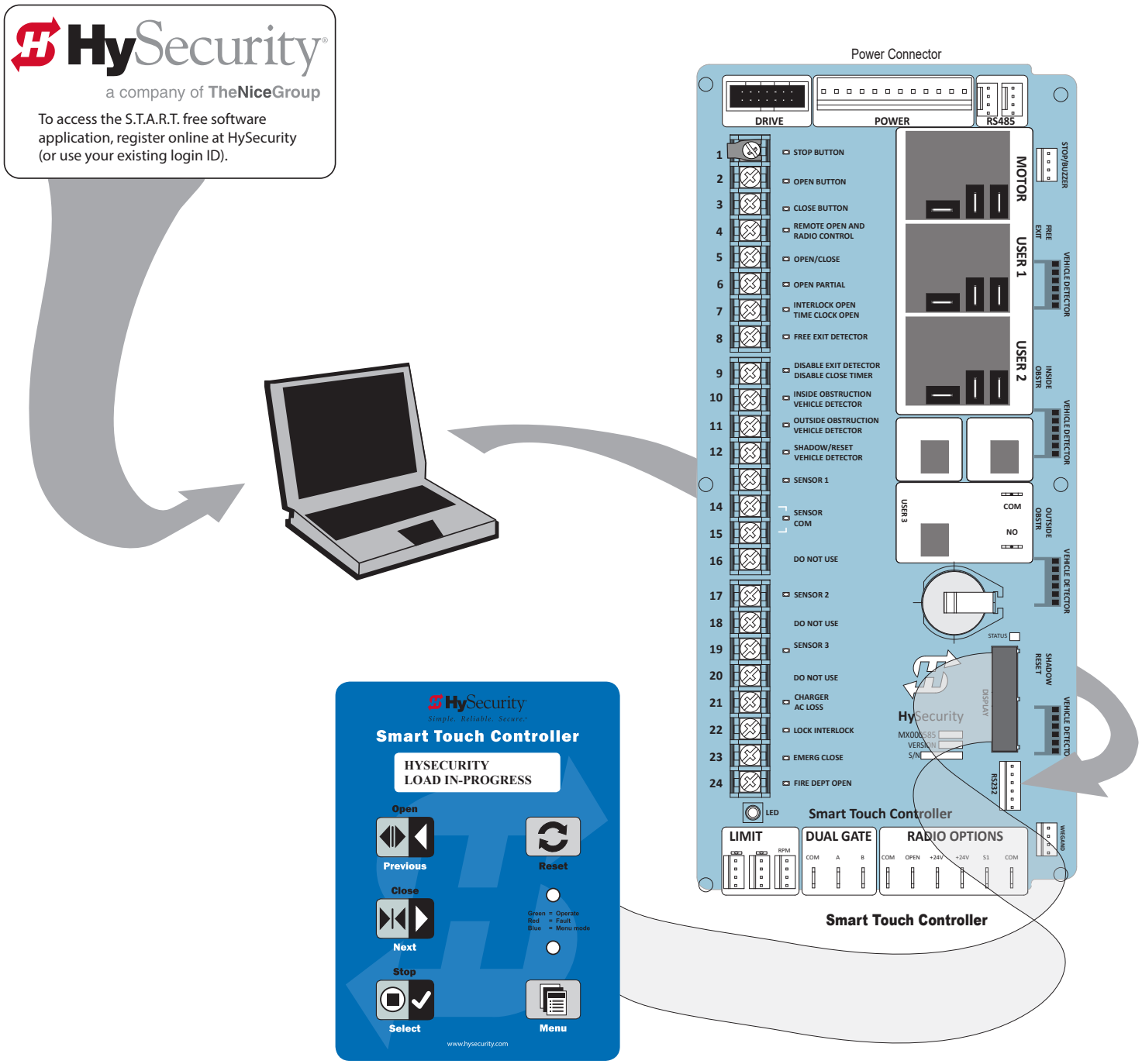
For more information, refer to UL 325 - 2016 Monitored Entrapment Wiring Diagrams online.

Initial Setup Using S.T.A.R.T.

With the S.T.A.R.T. application (available online after registering at HySecurity) uploaded to your PC laptop, you can choose to set site menu configurations from the comfort of your office. Then, simply bring your PC laptop to the gate operator site, connect to the gate operator using an RS-232 to serial download cable and USB adapter, and download the configured menu settings file from your laptop to the specified gate operator.0

Multiple operators can be configured in this way. No switches need to be set.

All the components are securely placed in a Control Box inside the chassis.



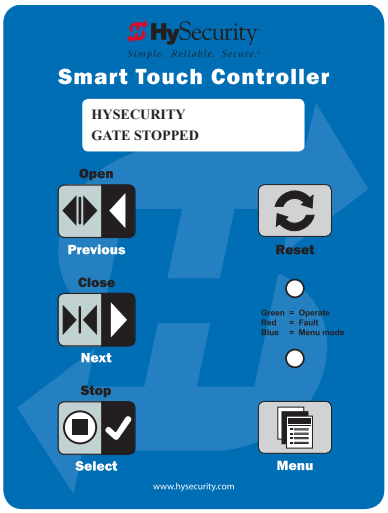
Smart Touch Controller: Downloading S.T.A.R.T. software

Gate Operator Display and Keypad

The STC display and keypad provide access to the operator's sophisticated software and functionality.

Three different operational modes exist:

- Run Mode - gate is operational, awaiting commands.
- Menu (Program) Mode - motor disengages and operational commands are ignored. Data entry, menu navigation, and menu selection can be accomplished via the keypad or through a START software connection using the RS-232 port.
- Fault Mode - alerts, faults, or errors appear on the display. Some errors or faults can be reset with the Reset button while more serious faults require additional troubleshooting. Faults indicate a need for diagnosis and resolution. Refer to "Troubleshooting" on page 35.
- The keypad lets you navigate, change, or clear the information in the display menus. The singular use of these keys is dependent on the operator mode.
- The buttons with text above and below have two functions. Use these buttons to enter operating commands or navigate through the User and Installer Menus.

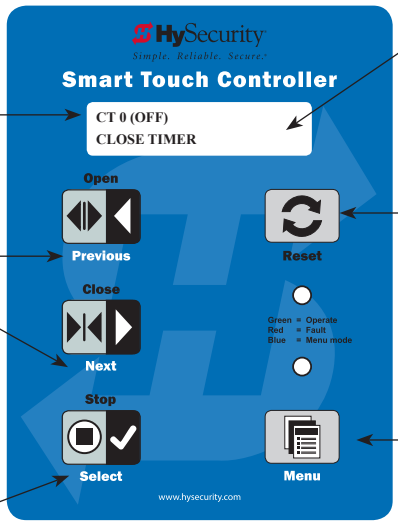


Gate Status Display in Run Mode

Menu Mode and the STC Keypad

In Menu (Program) Mode, the motor disengages and operator commands are ignored. Data entry, menu navigation, and menu selection can be accomplished using the buttons on the Smart Touch Controller keypad.

NOTE: Menu Mode automatically returns to Run Mode if no activity (i.e. key presses) occurs for two minutes.



32-character display provides information about the menu items.

Two blinking characters indicate that the display will accept changes.

The **Reset** button is disabled while in Menu Mode.

Next or **Previous** Navigational buttons. Pressing Next or Previous scrolls through the options.

Pressing **Select** causes the left most two characters to blink, (CT in the example), which indicates the display is ready to accept changes to a menu setting.

The **Menu** button accesses Menu mode. When the menu item is selected and blinking, the Menu button has no function. However, pressing Menu when the 2 characters are static (not blinking), returns the operator to Run Mode.

Use the navigational buttons to view selections. Press **Select** a second time to accept what appears on the display. Entry mode is exited, the two characters stop blinking, and Next or Previous must be pressed to move onto a different display. Pressing Menu exits to Run mode.

Menu Mode Navigation

Navigating within the program menus is easy once you learn how the keypad buttons function. Refer to the following chart.

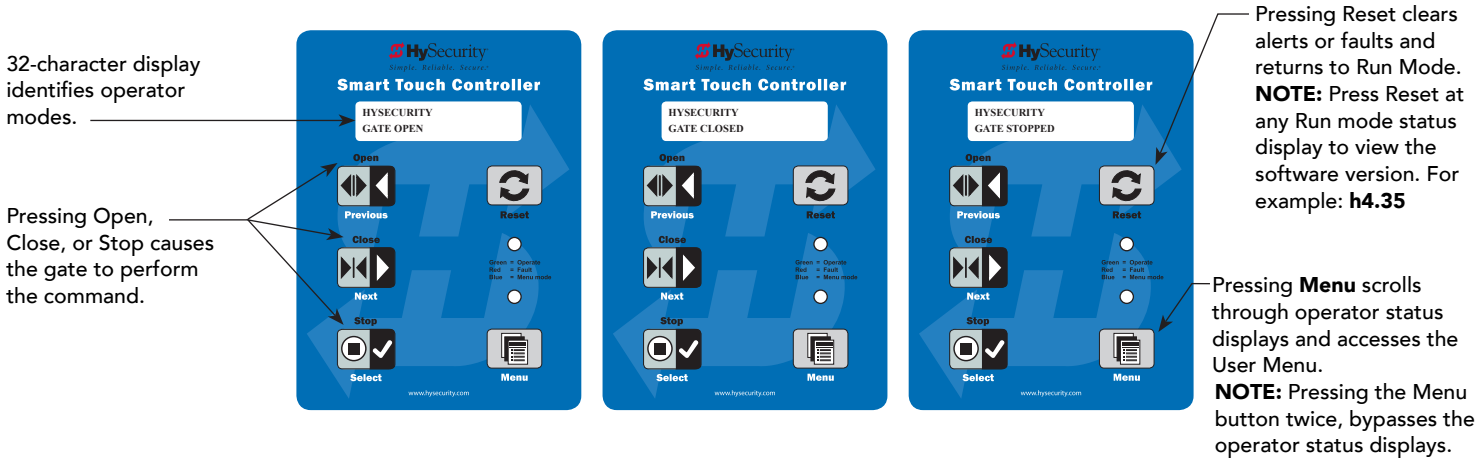
Smart Touch Controller: Menu Mode Navigation Buttons

To change that data appearing in the display	To navigate through the Selections	To choose what appears on the display	To navigate between menu items
Press **Select**. Two left characters blink.	Press **Next** or **Previous**. Continue pressing Next to view all selections.	Press **Select**. Blinking characters become static.	Press **Next** or **Previous**. Advance - press Next Previous - press Previous

Run Mode and the STC Keypad

The Run Mode displays appear static when the operator is ready and waiting for a run command. When the display is flashing GATE OPENING or GATE CLOSING, a command has been received and the barrier gate is in motion. The command may come from a variety of sources: a card reader, push-button remote, or recognition of a vehicle passing over a loop detector. In all cases, the operator "runs" the motor when it receives an operational command.

Three displays indicate the position or status of the barrier gate. The keypad entry used to access the User or Installer menus, begins at one of these Run Mode displays.



Run Mode Displays

NOTE: To access the User or Installer menus, the motor cannot be engaged and the gate cannot be moving.

Viewing Gate Operator Scrolling Status

Press the Menu button once and the operator status displays scroll past in two second intervals. Pertinent information appears to provide a quick overview of the operator's status or configurations.

The type of information that may scroll across the display includes: interlocked or sequenced gate (if applicable), operator type (OT), Usage Class (UC), buss voltage, and life cycle counter.

Check Time and Date

An easy way to determine if your operator is set for the correct date and time zone can be accomplished by taking the following steps:

1. While in Run mode (gate status appears in the display), press and hold the STOP button.

   The date appears DD/MM, and then the time HH:MM.
2. If you need to change the time zone, refer to the Set Clock "CL" item in the User Menu.

Stop the STC Status Display Scroll

To stop the operator status display scroll and focus on one item, press Select. Press Select a second time, to resume the scrolling display. Status scrolling also occurs when you press the Menu button once.

Change the Contrast on 7-Segment STC Display

While the gate operator status displays are scrolling, you can change the contrast (on the 7-segment display) by pressing the up or down arrow keys. The display's contrast changes accordingly. The operator status displays continue to scroll and stop at the User Menu entry item.

NOTE: Since sunlight does not affect readability on the OLED display, changing the display contrast is not available on gate operators shipped with the 16 character, 2 line display.

Display Power Saving Mode

To conserve energy, the display dims after a period of time if no keypress, run command or fault occurs. When an event (keypress, run command, or error/alert/fault notification) occurs, the display returns to full brightness.

Check the Software Version

Press Reset. The display indicates the software version loaded on the gate operator. To upload software, you will need a PC laptop. For more information, see "Smart Touch Analyze and Retrieve Tool (S.T.A.R.T.)" on page XXX.

AC Power Loss Function: User Menu

The AP setting configures how the gate functions when AC power fails. The AC Power Supply with HyInverter AC does not have a keypad so User Menu items can only be modified using the Smart Touch Controller keypad found in the gate operator.

The User Menu item specific to AC Power Supply with HyInverter AC power loss is described below. For the full list of User Menu items, refer to your gate operator's *Programming & Operations Manual*.

Access:

Pressing the Menu button, at one of the STC static Run Mode displays, causes the operator status displays to scroll past, stop and display the first user menu item.

> **NOTE:** To access the User Menu, the operator must be in Run Mode. To bypass the operator status displays, press the Menu button a second time.

The Close Timer (or HC, Hold to Close) display is the first in a cyclical series of User Menu displays.

The LED on the keypad appears blue to indicate Menu Mode.

Use the navigational buttons, Select, Next, and Previous to change or view the menu functions. Refer to the chart, *Smart Touch Controller: Menu Mode Navigation Buttons* on page 24.

Table 1 and Table 2 describe the User Menu item specific to AC Power Loss. (Factory default settings are shown in bold.)

User Menu: Table 1

User Menu	7 Segment Display	Setting Options	Menu Tasks & Explanations	STC Wire Connections
AP 0 AC LOSS **UPS FAIL OPEN**	AP_0 AP_1 AP_2 AP_3	**0 = UPS FAIL OPEN** 1 = UPS FAIL CLOSE 2 = AUTO OPEN 3 = NO CLOSE TIMER	This menu item only appears if the operator is DC powered. The setting configures how the gate functions when AC power fails.	COM Terminal #21 UPS Terminal strip 24 VDC to control box power disconnect switch - and + ModBus connection. See "Establishing the RS-485 Connection" on page 17.

Refer to the next table for a description of the different AC Loss (AP) settings.

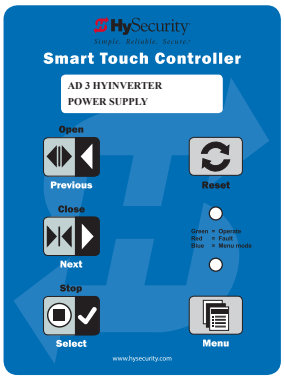
AP Menu, AC Loss: Table 2

User Menu Setting	Menu Tasks & Explanations	STC Wire Connections
AP 0 AC LOSS **UPS FAIL OPEN** AP_0	If the battery voltage drops below 20V, the gate operator opens and locks the gate until battery voltage recovers to 23.5V. The gate can be closed: • Manually • By pressing the Close button • By an Emergency Close input The gate may be re-opened by any open command until the battery voltage drops to 17V, at which time the gate is absolutely locked open, unless moved manually.	ModBus connection See "Establishing the RS-485 Connection" on page 17.
AP 1 AC LOSS UPS FAIL CLOSE AP_1	If the battery voltage drops below 20V, the gate operator closes and locks the gate until battery voltage recovers to 23.5V. The gate can only be opened by pressing the Stop button and then (within 1 second) pressing the Open button. **NOTE:** The Fire Dept. open input overrides the previous statement. The gate may be re-closed by pressing the Close button or using the Emergency Close input. When the battery voltage drops to 17V, the gate completes its final cycle and remains in the fully open or fully closed position.	ModBus connection
AP 2 AC LOSS AUTO OPEN AP_2	Five seconds after AC power loss, the gate operator automatically locks open until AC power is restored. The gate can be closed: • Manually • By pressing the Close button • By an Emergency Close input The gate may be re-opened by any open command until the battery voltage drops to 17V, at which time the gate is absolutely locked open, unless moved manually.	ModBus connection
AP 3 AC LOSS NO CLOSE TIMER AP_3	After AC power loss, the gate operator remains quiesence until it receives an open command, and then automatically locks open until AC power is restored. The gate can be closed: • Manually • By pressing the Close button • By an Emergency Close input If the battery voltage drops to 17V, the gate remains locked open, unless moved manually.	ModBus connection

Installer Menu

The Installer Menu options provide more advanced configurations for the gate operators. Access to the Installer Menu is through the User Menu. The navigational buttons are the same in both menu modes.

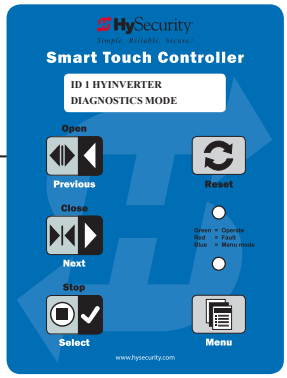
Access:



While a static gate status is being displayed, press the Menu button twice. (Bypasses the operator status displays.)

When the Close Timer display appears (Hold to Close, if the Close Timer display is hidden):

1. **Access the Installer Menu** by simultaneously pressing and holding the Reset and Open buttons.
2. Release both buttons and the display changes, indicating you have arrived at the first item in the Installer Menu.



NOTE: Installer Menu options can also be configured through the use of a laptop computer and S.T.A.R.T. software. See *Smart Touch Analyze and Retrieve Tool* information found on the HySecurity website: www.hysecurity.com

"Installer Menu: Table 3" on page 30 describes the Installer Menu items in or affected with the AC Power Supply with HyInverter AC. Make sure your gate operator has the most up-to-date software so you can access the AD menu item 3. The "ID" diagnostics menu item only appears when AD is set to 3.

CAUTION

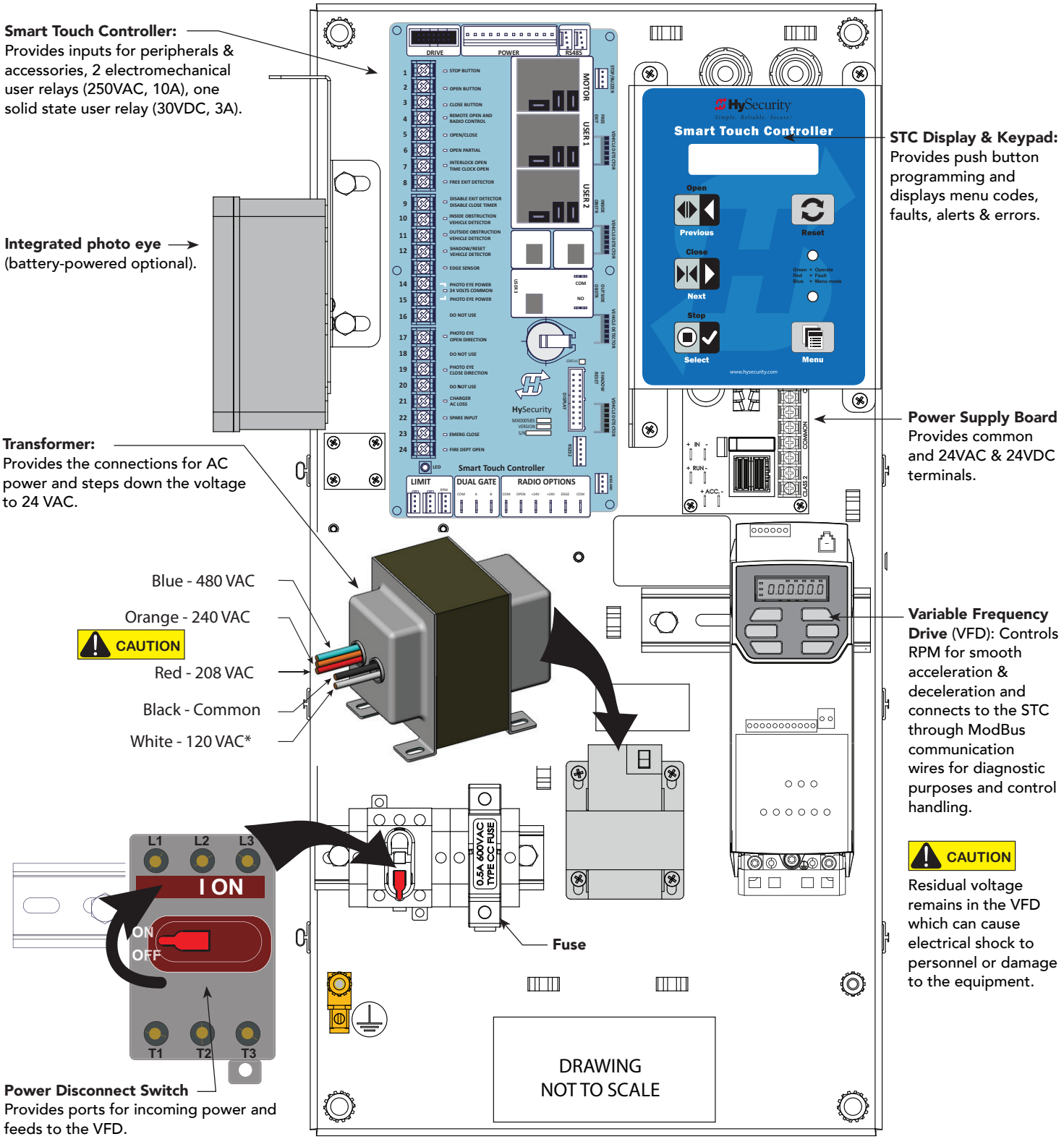
Keep your operator up-to-date with the latest software version. Use of the AC Power Supply with HyInverter AC, and other accessories requires the current version of software. Upload it to your PC laptop from www.hysecurity.com and use S.T.A.R.T. to download it to the Smart Touch Controller in your gate operator.

Installer Menu: Table 3

Installer Menu	Setting Options	Menu Tasks & Explanations	STC Wire Connections
AD 0 AC/DC GATE	**0 = gate disabled** 1 = AC (alternating current) 2 = DC battery-power 3 = HyInverter-Power Supply	Select the type of power that the operator uses and is appropriately wired. **NOTE:** This menu item only appears when the OT (operator type) is set. (OT 1- 4, 7-9)	N/A
TL 2 (45 SECS) OPEN TIME ALERT	0 = 0s delay 1 = 15s **2 = 45 second delay** 3 = 75s 4 = 105s 5 = 135s	Let's you to specify when the relay activates. The relay turns ON when the software detects that the gate operator has been off its close limit for the specified period of time. With updated software versions, TL appears in the Installer Menu even without the User Relay option 8 being utilized. It's appearance, in the Installer Menu, had been suppressed in earlier versions of software.	User Relay 8
LT 3 (75 SECS) LOITERING ALERT	0 = 0s delay 1 = 15s 2 = 45s **3 = 75 second delay** 4 = 105s 5 = 135s	Let's you to specify when the relay activates. The relay turns ON when the software detects that the gate operator has been off its close limit for the specified period of time. With updated software versions, LT appears in the Installer Menu even without the User Relay option 13 being utilized. It's appearance, in the Installer Menu, had been suppressed in earlier versions of software.	User Relay 13
ID 0 HYINVERTER DIAGNOSTICS	**0 = no diagnostics displayed** 1 = view diagnostics displays HYINVERTER INPUT - LINE xxx.x VAC HYINVERTER TEMP - xxx.xF / xxx.x C HYINVERTER VOLTS - BATTERY xx.x VDC HYINVERTER - BATTERY xxx.x %	Controls which system diagnostics appear on the display. With a setting of 1, you access the AC Power Supply with HyInverter AC diagnostic mode. These same diagnostics appear on the AC Power Supply with HyInverter AC display in a constant scrolling format. Use the Next or Previous buttons, on the gate operator's keypad, to view the same diagnostics on the STC display.	AC Power Supply with HyInverter AC to STC (Modbus RTU communication protocol via RS-485)

Control Panel Components: HySecurity Gate Operator

A Control Panel from a StrongArm CRASH HySecurity gate operator is shown below as an example of possible components in your gate operator. Note that only 3Ø gate operators have the Variable Frequency Drive.



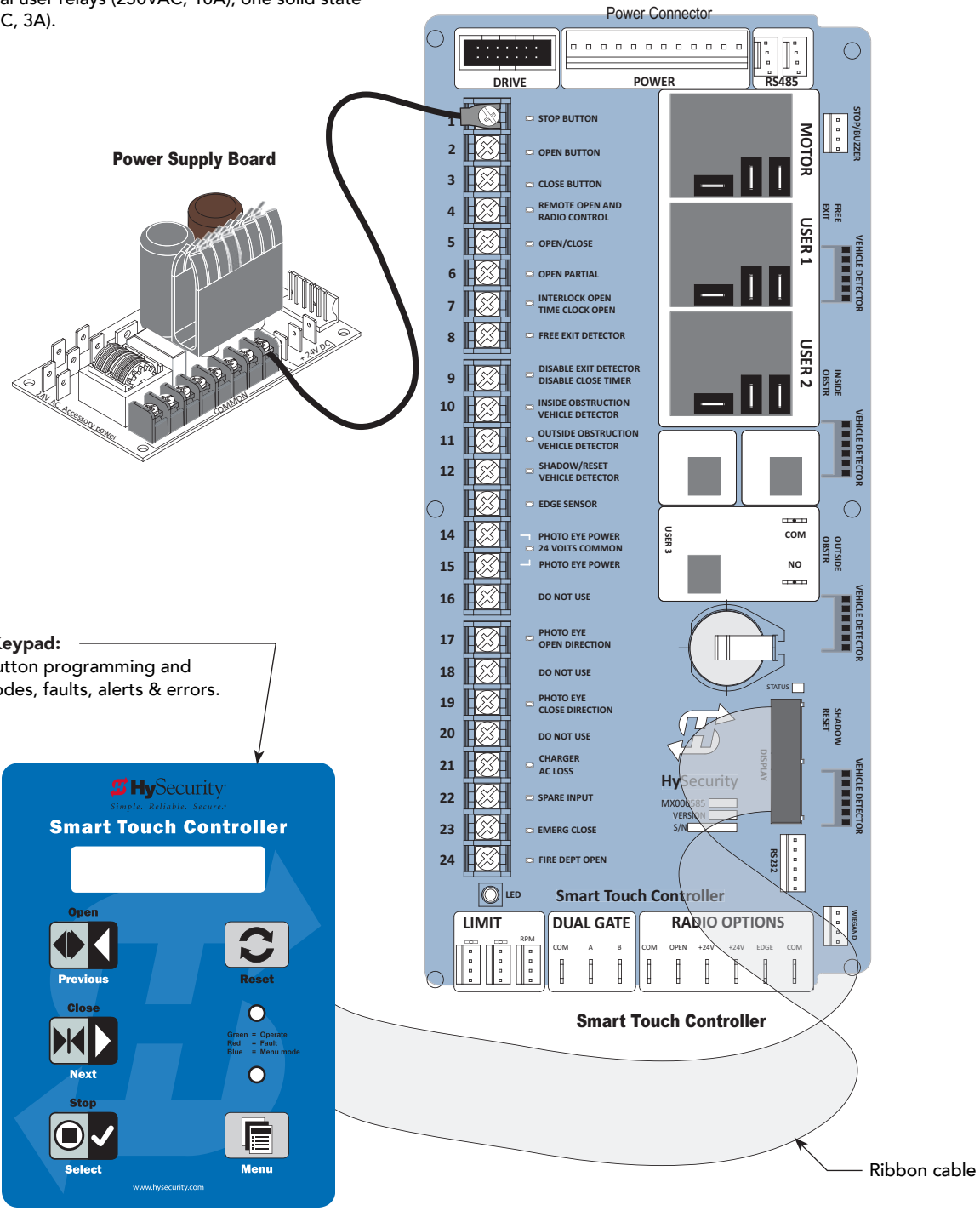
CAUTION

Connect to red and orange wires only when using AC Power Supply (208/240VAC).
* On VFD gate operators, never connect power to the white 120V wire.

STC Board, Power Supply Board and Display

The Smart Touch Controller provides connections for a multitude of peripherals and accessory devices. The Power Supply Board offers 8 common buss terminals, 4 terminals (24VAC) and 3 terminals (24VDC) with a 3A maximum draw. The touch-sensitive keypad and 16-character, 2-line display connects to the STC with a waterproof ribbon cable. For more information about STC Inputs and connections, see the product manuals that accompany your gate operator.

Smart Touch Controller:
Provides inputs for peripherals & accessories, 2 electromechanical user relays (250VAC, 10A), one solid state user relay (30VDC, 3A).

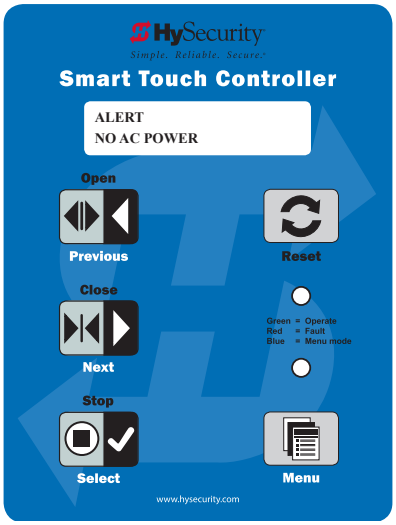


STC Display & Keypad:
Provides push button programming and displays menu codes, faults, alerts & errors.

Troubleshooting

The Smart Touch Controller reports system malfunctions using three simultaneously occurring methods:

- Codes presented on its display (alert, fault or error)
- Activation of a buzzer which emits a series of chirps at defined intervals
- Stop gate travel



A short list of codes appears in this section and provides troubleshooting solutions for AC Power Supply with HyInverter AC powered gates. For a complete list of troubleshooting codes, refer to the Troubleshooting Codes table in your gate operator's *Programming and Operations* manual.

To help in diagnosing a controller board problem, the active status of each input on the Smart Touch Controller is indicated by its associated LED.

- On AC- powered gate operators: Active-input LEDs are always illuminated.
- On DC- powered gate operators (with AC input OFF): Press and hold the Tact button to illuminate the active-input LEDs.

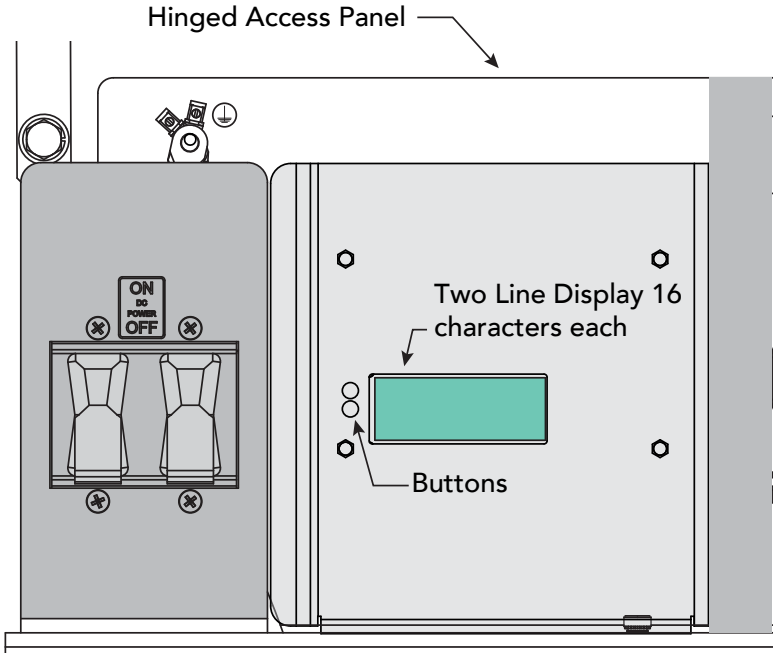
NOTE: A qualified technician may troubleshoot the operator with the aid of the information and procedures that follow. If it is necessary to call a distributor for assistance, be sure to have the model and serial numbers available. Other helpful information is the job name, approximate installation date, and service records of any recently-performed maintenance work.

The control panel and two line, 16-character display on the AC Power Supply with HyInverter AC provides a system status scroll:

- Incoming Input Line Voltage (VAC)
- AC Power Supply with HyInverter AC Enclosure Temperature (automatically regulated)
- Battery Voltage (VDC)
- Battery Level (percent remaining)

The AC Power Supply with HyInverter AC status can also appear on the gate operator's STC display.

A menu item, AC Power Supply with HyInverter AC Diagnostics (ID 0), is available in the Installer Menu. By selecting a setting of ID 1, the same diagnostics that scroll on the AC Power Supply with HyInverter AC display can be viewed. For more information, see "Installer Menu: Table 3" on page 30.



STC System Diagnostic Messages

Code	Priority	How to clear
ALERT	Low	Enter new command such as Open or Close.
FAULT	Medium	Press the Stop or Reset button
ERROR	High Serious issue that may require Technical Support.	Errors can only be cleared by pushing the Reset button or cycling power.

NOTE: The green LED near the coin-sized battery on the Smart Touch Controller is the "heartbeat" of the processor. This LED flashes continuously and at a constant rate when the system is operating normally. When a fault, error, or alert occurs, it turns red.

The Smart Touch Controller maintains self-diagnostics. Specific codes appear on the display and the Audio Alert buzzer emits distinctive chirping sounds. Any Alert, Fault, or Error is logged into memory and stamped with the date and time. These diagnostic messages can be retrieved for analysis purposes via optional S.T.A.R.T. software and a PC laptop.

NOTE: S.T.A.R.T. configuration and diagnostic software is available at no charge from www.hysecurity.com.

Troubleshooting Codes: Table 1

Type	Alert/Fault/Error Display	Buzzer Chirp Sequence	Possible Cause & Suggested Corrective Action
ALERT	NO AC POWER	Chirps once whenever the gate reaches the close limit	AC power is shut off at the source (breaker) or is not connected. • Have a licensed electrician check the wiring. • Connect AC power to the operator. • Reset circuit breaker at the electrical panel. • Reset the operator circuit breaker. • Turn AC power switch on.
ALERT	LOW 24VDC (BATTERY)	No chirps; LCD flashes for 1s every 5s	Only occurs in DC powered operators. Occurs when battery voltage has dropped to less than 22V. At this level, batteries are 80% depleted. Normal function until 21V. **NOTE:** Functionality of the controller board becomes impaired when less than 20% of the battery charge remains. 1. Check that AC power is available. Check all wiring connections. Clean or repair as required. 2. Check the following and replace, if necessary: • Battery condition • Charger failure. Check charger voltage • STC • Transformer
ALERT	HYSECURITY BAD POWER (POWER DOWN)	No chirps: LCD steady and controls disabled	Critically low DC power. System monitors 24V control voltage in lieu of line voltage. Low incoming line voltage will cause low control voltage. Verify control transformer is connected properly, (white – not used, red for 208V, orange for 230V and blue for 460 V). As motor starts, check line voltage with a meter that has min/max hold capability. If line voltage drops more than 10% below nominal (187 on 208 VAC, 207 on 230 VAC, or 416 on 460 VAC) voltage is dropping too much and must be corrected. Generally, this requires larger wire size. On 3-Phase operators, check each leg to ground to make sure it is balanced. If line voltage is not dropping below these limits, check 24V AC and DC power at power supply. Voltages less than 20V indicate an overloaded or failing transformer or power supply board. Remove loads until the fault is found.
ALERT	DEAD BATTERY DC BUSS < 21V	3 chirps upon any operating command entry	Appears when the battery power drops too low, disabling the operator to prevent damage to the batteries from excessive discharge. Verify the AC power is present at the AC Power Supply with HyInverter AC, the charger is on and charging. The charger should shut off when the batteries are fully charged. If the batteries will not "hold a charge" replace them. 1. No AC Power. 2. Wiring / Connector problem - check all connections. Clean or repair as required. 3. Check battery condition. 4. Smart Touch Controller charger failure - check charger voltage and replace Smart Touch Controller. 5. Transformer failure - replace Transformer.

Type	Alert/Fault/Error Display	Buzzer Chirp Sequence	Possible Cause & Suggested Corrective Action
ALERT	ALERT 17 BAD COIN BATTERY	3 chirps at initial power up	The small coin battery on the STC is loose or needs replacing. 1. Verify that the battery is properly seated. 2. Replace coin battery. 3. Restore power. 4. Press RESET button.
FAULT	FAULT 6 HYINVERTER OVRLD	2 chirps per second once per minute	Excess output load on the AC Power Supply with HyInverter AC causing power loss. Check gate hardware for binding (ice, poorly maintained gate, etc.) Check start/stop switch on 1 hp motor gate operators.
ERROR	ERROR 7 MENU CHECKSUM	3 chirps per second once per minute	Software issue exists that may require factory reset. Corrupt software or data. Contact HySecurity.
ERROR	ERROR 13 HYINVERTER COMM	3 chirps per second once per minute	Communication does not exist between the AC Power Supply with HyInverter AC and the Smart Touch Controller in the gate operator. 1. Check communication wires are connected and working properly. 2. Verify that your operator has the current software.
FAIL	FAIL PROGRAM DATA ERR	3 chirps per second once per minute	1. Try turning off the power to the operator and having the customer re-seat all of the various connectors and cables. 2. Upload the latest software release. If the fail does not go away, call Tech Support.

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WARRANTY

1. Warranty.

Hy-Security Gate, Inc. ("HySecurity") warrants that at the time of sale each of its products will, in all material respects, conform to its then applicable specification and will be free from defects in material and manufacture.

The following additional durational warranties apply to HySecurity products, depending on whether (1) the product is purchased through an authorized HySecurity distributor and (2) whether a timely and complete product registration is submitted to HySecurity.

It is therefore important that you register your product with HySecurity, online at www.hysecurity.com/warranty, within the 60-day period described below.

1(a) HySecurity Products Purchased Through Authorized Distributors and Properly Registered

For any gate operator product that is purchased from an authorized HySecurity distributor (this excludes product purchased through internet resellers or any distributor not authorized by HySecurity), if the product registration is completed by the Dealer/Installer/End User within 60 days of the date of purchase, the following warranty terms will apply. HySecurity warrants that the product will remain serviceable for the following periods:

a) Hydraulic industrial gate operators hydraulics, controls, and mechanical components: Five Years or 500,000 gate cycles (whichever occurs first) after the date of installation,
b) Hydraulic wedge operator hydraulics and controls: Five Years or 500,000 cycles (whichever occurs first) after the date of installation. Wedge mechanical components: Two Years after the date of installation,
c) Electromechanical Slide and Swing operators: Five Years or 500,000 cycles (whichever occurs first) after the date of installation, except single family residential usage, where the warranty term shall be Seven Years after the date the product was shipped from HySecurity,
d) Electromechanical surface mount wedge operator electronics: Two Years or 500,000 gate cycles (whichever occurs first), after the date of installation,
e) Electromechanical Barrier Arm Operators: Two years or 1,000,000 gate cycles (whichever occurs first) after the date of installation,

provided that the preceding Five Year warranty period in (a), (b) and (c) will not extend beyond seven years from the date that the product was shipped from HySecurity, and the Two Year warranty period in (b), (d) and (e) will not extend beyond four years from the date that the product was shipped from HySecurity.

The preceding warranty durations do not apply to the products or components described below (f-i), which have a shorter warranty period.

f) Hydraulic gate operator drive wheels including XtremeDrive™ wheels and rack: Two Years from date of installation.
g) AC and DC power supplies, chargers and inverters and HyNet™ Gateway: Two Years from date of installation, except batteries.
h) Batteries: One Year from date of shipment from HySecurity.
i) Components subject to normal wear including, but not limited to, chains, belts, idler wheels, sprockets and fuses: One Year from date of installation.

1(b) HySecurity Products *Not* Purchased Through an Authorized Distributor or Not Properly Registered within 60 Days

For any product that is not purchased from an authorized HySecurity distributor or for which the product registration was not completed by the Dealer/Installer/End User within 60 days of the date of purchase, the following **One-Year Limited Warranty** will apply: HySecurity warrants that the product will remain serviceable for the following periods, which begin on the date that the product was shipped from HySecurity:

a) All gate operators: One Year or 100,000 gate cycles whichever comes first.
b) AC and DC power supplies, chargers or inverters: One Year.
c) HyNet™ Gateway: One Year.
d) Hydraulic gate operator drive wheels: One Year.

1(c) Replacement Parts

HySecurity warrants that replacement parts (whether new or reconditioned) will remain serviceable for One Year from the date that the product was shipped from HySecurity or the remaining period of the Gate Operator warranty, whichever is longer.

1(d) Limitations and Exclusions Applicable to Each of the Preceding Warranties.

The preceding warranties shall not apply to equipment that has been (1) installed, maintained, or used improperly or contrary to instructions; (2) subjected to negligence, accident, vandalism, or damaged by severe weather, wind, flood, fire, terrorism or war; or (3) damaged through improper operation, maintenance, storage or abnormal or extraordinary use or abuse. Any modification made to products will void the warranty unless the modifications are approved in writing by HySecurity in advance of the change (this exclusion does not apply to normal installation of approved accessories and/or protective devices or sensors). It is the responsibility of the distributor, installer, or End User to ensure that the software version in the product is maintained to the latest revision level.

The preceding warranties do not extend to accessories when those items carry another manufacturer's name plate and they are not a part of the base model. HySecurity disclaims all warranties for such accessory components, which carry only the original warranty, if any, of their original manufacturer. HySecurity hereby assigns its rights under such manufacturer warranties—to the extent that such rights are assignable—to Buyer.

These warranties extend to HySecurity's Distributors, to the Dealer/Installer, and to the first End User of the product following installation. They do not extend to subsequent purchasers.

2. Exclusion of Other Warranties.

The warranties contained in Section 1 are the exclusive warranties given by HySecurity and supersede any prior, contrary or additional representations, whether oral or written. Any prior or extrinsic representations or agreements are discharged or nullified. HYSECURITY HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES—WHETHER EXPRESS, IMPLIED, OR STATUTORY—INCLUDING ANY **WARRANTY OF MERCHANTABILITY**, ANY **WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE**, ANY LIABILITY, FOR INFRINGEMENT, AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE.

3. Buyer's Exclusive Remedies for Any Nonconformity.

If a HySecurity product fails to conform to the warranties in Section 1, Buyer must notify and order replacement parts from the Distributor through which the product was purchased within a reasonable time and in no event more than thirty (30) days after the discovery of the nonconformity. HySecurity will investigate and, in the event of a breach, will provide, within a reasonable period of time, one of the following: (1) repair or replacement of any nonconforming products or components or (2) refund of the price upon return of the nonconforming items. HySecurity reserves the right to supply used or reconditioned material for all warranty claims. HySecurity will not be considered to be in breach of or default under this Warranty because of any failure to perform due to conditions beyond its reasonable control, including any force majeure. This warranty does not cover any incidental expenses, including fines or penalties, temporary security, labor, shipping, travel time or standby time that are incurred for inspection or replacement of any nonconforming items. As a condition of warranty coverage, warranty claims must be submitted in accordance with the procedures described on the HySecurity form, "RMA Procedures."

THE REMEDY SELECTED BY HYSECURITY IN ACCORDANCE WITH THIS PARAGRAPH SHALL BE THE **EXCLUSIVE AND SOLE REMEDY OF BUYER FOR ANY BREACH OF WARRANTY**.

4. Exclusion of Consequential and Incidental Damages.

HYSECURITY SHALL NOT BE LIABLE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM NONDELIVERY OR FROM THE USE, MISUSE, OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT OR FROM HYSECURITY'S OWN NEGLIGENCE. This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, or strict liability. This exclusion does not apply to claims for bodily injury or death.

5. Severability.

If any provision of this warranty is found to be invalid or unenforceable, then the remainder shall have full force and effect.

6. Proprietary Rights.

HySecurity retains and reserves all right, title, and interest in the intellectual property rights of its products, including any accompanying proprietary software. No ownership of any intellectual property rights in the products or accompanying software is transferred to Distributor, Dealer/Installer or End User.

7. Applicable Law.

This warranty will be interpreted, construed, and enforced in all respects in accordance with the laws of the State of Washington, without reference to its choice of law principles. The U.N. Convention on Contracts for the International Sale of Goods will not apply to this warranty.