**OVERVIEW:** The Genesis board has a 4 line 20 characters per line LCD backlit screen. At power up, the display will show the AutoGate and Genesis branding, along with the program version number and the current time. After 5 or 6 seconds, this will then shift to the HOME screen, or base operational data shown below under MAIN SCREEN.

AutoGate	Ver.7.3
GENESIS	01:22am

### TITLE SCREEN



Line Voltage 25.39\*

Open Time: 10 Close Time: 10 ≻Auto Close: Off Auto Delay: 03

Example 1

	Open Time: Close Time: Auto Close: Auto Delay:	10 10 0ff< 03
--	---	------------------------

Example 2

**JOG/SELECT Control Knob:** The screens are accessed and modified by a JOG/SELECT control knob. Turning the Jog/Select dial will scroll through the sub-menu selections. When a Sub Menu is showing, a quick momentary press of the Jog/Select knob will display the first screen in that sub menu. Turning the Jog/Select knob will move the cursor (>) through the adjustable parameters.

# JOG/SELECT Knob

**SCROLLING:** Rotating the Jog/Select knob clockwise will scroll through the adjustments on that screen. If there is another screen in that sub-section, continue to scroll after the last character, the screen will automatically change to the next screen. When at the last screen of a sub-section, a long push, (approx. 1 second), of the Jog/Select knob will return to the Sub-Section main screen. Sub Sections can be scrolled in either direction by turning the Jog/Select knob clockwise or counter-clockwise.

JOG/SELECT ACTIONS: Two different actions can occur on the screens:

1) If the cursor is pointed to a descriptive phrase (Example #1), then a momentary push of the Jog/Select knob will move the cursor to the adjustable parameter. Then turning the Jog/Select knob will change the value.

2) When the cursor is pointed to left side of a value or parameter to be changed, (example #2), use quick momentary push of the Jog/Select knob to move the cursor. The cursor will move to the right side of the value (<). Turning the Jog/Select knob will change the value. When done, again, a quick momentary push of the Jog/Select knob moves the cursor back to the left.

**Note:** Gate will not be operational while in programming mode. When in programming mode there will be a series of flashing lights at all times above the LCD screen.

Note: Screens in ORANGE are WARNING screens that will appear when there is an issue.

### SCREEN MENUS

### MAIN SCREEN

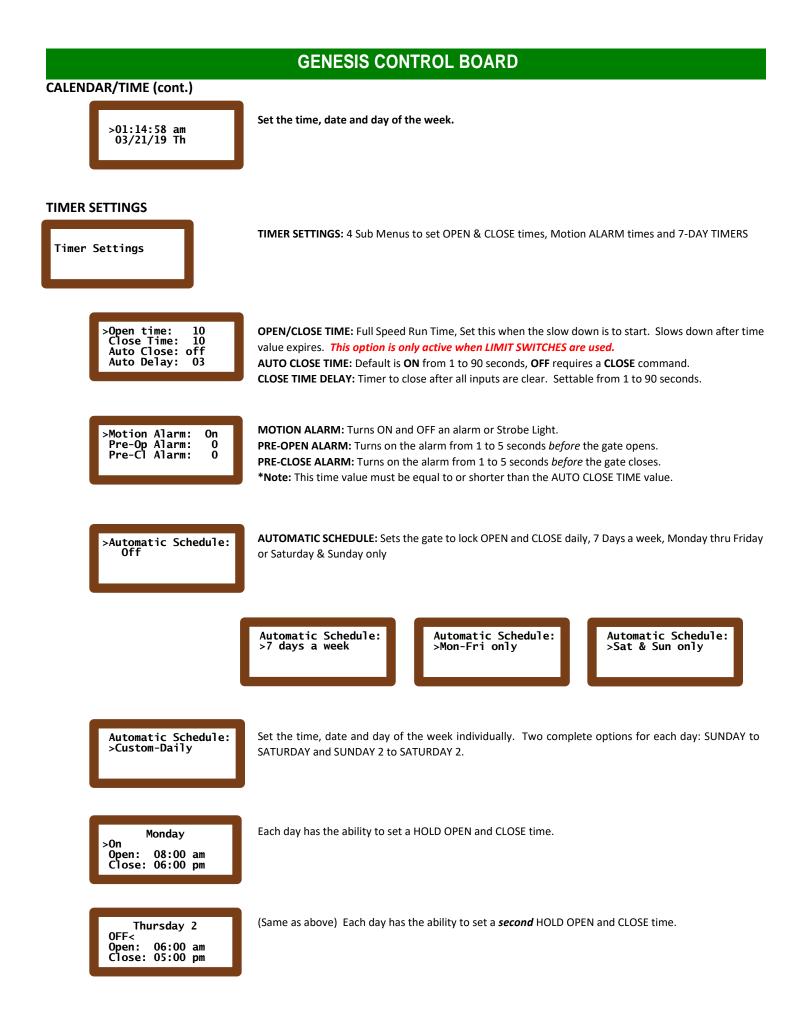


Line voltage: From the Power supply. (Normal voltage will be 26 to 27, Preset to 26.5Vdc) Battery voltage: When AC present: Charging Voltage to batteries, When on DC only: Actual battery voltage. (Normal voltage is 26.4 to 26.8) Motor: Displays actual motor amperage during cycling Cycles: A cycle count is considered a complete OPEN & CLOSE T=00: Operation count in seconds for both open and close cycles and also counts down the *"Timer to Close"* (CLOSE TIME) time.

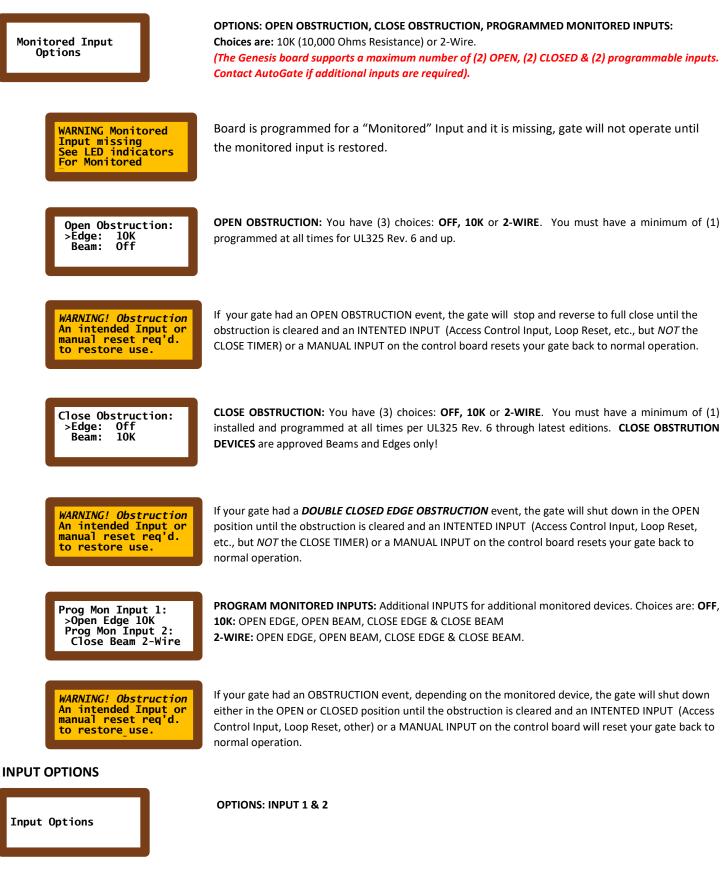
### CALENDAR/TIME

Calendar/Time

Set the time, date and day of the week.



#### MONITORED INPUT SETTINGS

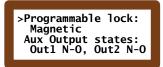


### INPUT OPTIONS (cont.)

INPUT OPTIONS (cont.)	
>Input 1 Mode: Off Input 2 Mode: Off	INPUT (1 & 2) MODES: OFF OPEN-Open command CLOSE-Close command Single Button-Open-Stop-Close-Stop
WARNING! FIRE SWITCH IS ENABLED. Hold Stop and press Jog/select to clear	Reverse-Reverse command Fire-Holds the gate Open (will cause a FLASHING ALERT warning screen) Shadow-Shadow Loop input Auto Open: Default is OFF-Skips the next days 7-Day Timer cycle commands Hold Open-Opens gate: Holds open until Input removed (will cause a FLASHING ALERT warning screen)
WARNING! HOLD OPEN IS ENABLED, gate will not close until released	Emergency Secure-Gate will NOT open <i>(will cause a FLASHING ALERT warning screen)</i> Emergency Close-(Custom programmed, contact AutoGate for this option) Aux 1 Pulse-Pulses Auxiliary 1 contacts Aux 1 Hold-Holds Auxiliary 1 contacts until triggered Aux 2 Pulse-Same as Pulse 1
WARNING! EMERGENCY SECURE is enabled. Gate will not OPEN until released	Aux 2 Hold-Same as Hold 1
>Aux Input 1 Delay 5 Seconds Aux Input 2 Delay 0 Seconds	<b>AUXILLARY INPUT 1 &amp; 2 DELAY:</b> Option to delay the INPUT from firing and opening the gate. Settable from 1 to 20 seconds
>Open/Close Pgm In: Off AUXILARY OUTPUT OPTIONS	<b>Open/Close Program:</b> Programs the OP/CL PRM Input under P2 on the board to either and OPEN/CLOSE Input or an OPEN only.
AUX Output Options	OPTIONS: AUXILIARY RELAYS (A & B), OUPUT (1 & 2), PROGRAMMABLE LOCK
>Relay A Mode: Off Relay B Mode:	AUXILIARY RELAYS (A & B): Either relay can be set for a variety of functions: OFF Pulse on Open Limit Pulse on Close Limit Hold on Open Limit Hold on Close Limit Pulse on Motor Open Pulse on Motor Close Hold on Motor Close
>Output 1 Mode: Hold on Aux 2 Output 2 Mode: Off	OUTPUT (1 & 2): Either relay can be set for a variety of functions and provides 24vdc power OFF Pulse on Open Limit Pulse on Close Limit Hold on Open Limit Hold on Close Limit Pulse on Motor Open Pulse on Motor Close Hold on Motor Close

Hold on Motor Close Hold on UL Alarm Hold on Motor Run

### **AUXILARY OUTPUT OPTIONS (cont.)**



>Output 1 Pulse Rate

Output 2 Pulse Rate

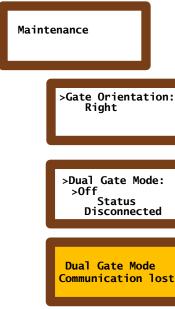
2 Seconds

<sup>1</sup>/<sub>4</sub> Seconds

**PROGRAMMABLE LOCK:** Output to control Maglocks or Solenoid Locks. The Maglock will be powered all the time and turn off prior to gate motion. The Solenoid mode will power a 24VDC output prior to gate motion.

**OUTPUT PULSE RATE:** 

#### MAINTENANCE



Batt: Float Charge >PWR SUPPLY: Normal Batt V Check Freq: 50 Cycles

WARNING! Charging source NOT detected in the last 24 hours! **GATE ORIENTATION:** Set for LEFT or RIGHT hand gate. The hand is always determined from the INSIDE or PRIVATE side of the gate system. If the operator is located on the right-RIGHTHAND, left-LEFTHAND.

GATE ORIENTATION, BATTERY STATUS, SOLAR, BATTERY CHECK, BATTERY LEVEL, OVER CURRENT

LEVEL, CONSTANT PRESSURE MODE, DUAL GATE MODE & CUSTOM SETTINGS

**DUAL GATE MODE:** Turn "ON" when you have (2) gates opening at the same time. **Options:** OFF, Primary or Secondary. If "ON", then each gate needs to be set accordingly **STATUS:** Disconnected or Connected

In a PRIMARY/SECONDARY or DUAL gate mode system, if you lose communication between the two operators you will get this message.

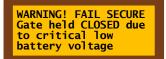
BATTERY STATUS: Indicates the charging status: FLOAT: When battery is FULL voltage and not being charged BULK: Battery is in charging mode ABSORBTION: Batteries are low, switches to charging POWER SUPPLY VOLTAGE: NORMAL (Default): Standard power supply CHARGE: For retrofitting older systems only and replaces the original factory transformer SOLAR: Used when you have Solar Panels WARNING! If Solar is set to ON, and AC voltage is present, the AC voltage will not be connected and you will still be operating off batteries only! Loss of SOLAR or Power Supply connection for 24 hours (will cause a FLASHING ALERT warning screen)

**BATTERY V CHECK:** How often the board will test the batteries under load. The factory pre-set is every 50 cycles. (Pass code required to change cycle frequency)

>Low Battery Action No Action LOW BATTERY ACTION: Default is No Action Options are:

FAIL SAFE: Gate will fail OPEN (will cause a FLASHING ALERT warning screen) FAIL SECURE: Gate will fail CLOSED. (will cause a FLASHING ALERT warnina screen)

WARNING! FAIL SAFE! Gate held OPEN due to critical low battery voltage



### **MAINTENANCE** (cont.)

>Low Battery Level Note: this screen not viewable. Requires passcode **BATTERY LEVEL:** During battery test, if the battery level falls below the level set, it will turn on the **FAULT LIGHT** and issue a **FAULT CODE**. (Passcode required to change). *(will cause a FLASHING ALERT warning screen)* 

Battery issue: Check the charge voltage, check the Batteries or replaced if necessary.

WARNING! LOW BATTERY Check charge circuit, charge or replace Batteries

>Over-Current level: 10 Amps **OVER-CURRENT LEVEL:** Adjusts the Internal Inherent Amp current level for the motor. On model 2490 systems with the GENESIS board and the **LPS SENSOR**, this will not be in effect. When using **LIMIT SWITCHES**, the **OVER-CURRENT LEVEL** must be set for obstruction/entrapment sensing. If the board senses an OVER-CURRENT it will reverse the gate on the first activation. On a sequential activation, this will stop the gate and turn on the UL Alarm. To reset.... Check for any obstructions, if none, Press the STOP button on the board or if you have an accessory STOP button wired to the STOP input. The third option is to hit the RESET button.

>Const Press Mode: Off On with STOP N-O On with STOP N-C **CONSTANT PRESSURE (CP) MODE (CLASS IV):** In the CP mode, the **OPEN 1 & CLOSE 1** inputs can be wired to a push button station for gate control. In a CP mode, these inputs will override the Entrapment **STOP/ALARM** condition. Status is **ON** or **OFF** only.

WARNING! Use caution when using these inputs. Always have direct line of site to the gate at all times to avoid pedestrian injuries or equipment/vehicle damage.



**CUSTOM SETTINGS:** For advanced features. Requires a "PASSCODE" available from AutoGate only. Code is active for 24 hours only. After 24 hours a new code is required.

#### **MOTOR CONTROL**



>Gate Opening Speed: 100% Gate Closing Speed: 100%



**OPTIONS:** GATE SPEED, LIMIT SWITCHES, HALL (A & B), OPEN/CLOSE, POSITION SETTINGS

**GATE SPEED:** Default 100%, any percentage less than 100% down to 80% will slow the gate opening and closing down accordingly.

**DECEL SPEED:** Sets the time value on setting the gate speed from full speed to slow speed. The scale is 1 to 20, with 20 being the slowest.

**OPTIONS:** Fault log, Operation Log, Maintenance Alerts

### **MOTOR CONTROL (cont.)**



WARNING! No Limit Position Sensor detected! Gate will not operate!

### FAULT/LOGS/ALERTS



Fault Log >25 10:34p 04/20/18 Gate Angle Sensor

Operation Log #06< 02:55p 06/29/18 Local Open

>Maintenance Alerts
50K Cycles
Next due at 80,000

>Maintenance Alert
Maintenance required

LIMIT SWITCHES: Default is "NOT USED". Model VPG 2490 systems are equipped with a Limit Position Sensor (LPS). *If no sensor is present, then a fault code is generated and the gate will not move.* Choices are: NORMALLY OPEN, NORMALLY CLOSED, HALL & HALL B. Normally open & close will choose the type of wired Limit Switch to be used.

HALL A & HALL B: Only used on direct replacements on LIFTMASTER/MEGA ARM operators.

**FAULT LOG:** Running list of faults, stored for reference for diagnostic troubleshooting. The last 99 codes are stored. The newest code will always be the first one shown. Any fault in the system will also turn on the **FAULT LIGHT** on the outside of the cabinet.

**OPERATION LOG:** All normal "operations" are recorded up to 99 events. (i.e. entry Inputs, loop detections, & photoelectric sensors/beam detections, traffic lights, etc. are examples of normal "operation" events logged.)

**MAINTENANCE ALERT:** Alerts the owner that maintenance is due after a selected number of cycles. This can be set by the installer for 10K, 20K or 50,000 cycles. The screen will show how long until the next alert will show. **NOTE: WILL THERE BE SCREEN FLASHING TO ALERT FOR MAINTENANCE?** 

**MAINTENANCE ALERT:** You have reached your predetermined number of cycles to perform general maintenance.