Genesis Software Revision Log

New Features

Version 3.2.0

1. Allow glass profiles to be edited in the custom menu with Novice Mode off. To Edit, load a Glass program then press Edit -> Graph -> Table.

Version 3.3.0

1. Added Relay Health to Menu -> Diagnostics -> Relay Health. Measures the number of on/off cycles of the kiln's relays. Can be reset when the relays are replaced.
2. Added Cost Setup for 3 zone kilns to Menu -> Configuration -> Cost Setup. Input cost per kilowatt hour and wattage for each zone the kiln has to calculate the cost of firing.

Version 3.6.0

1. Added Edit-on-the-Fly for Custom User Programs. During a Custom User firing, the user can make changes to any segment not already in progress.
2. Added Thermocouple Offset adjustments during a firing. Under Menu -> TC Offsets. Allows adjustment of thermocouple offsets during a firing.

Version 3.9.0

1. Added Customization menu under Menu -> Customization. Allows the user to select which Custom firing profiles are active. Options are for glass, ceramic or a combination of both.
2. Added Lid Switch input to Menu -> Factory Configuration -> Lid Switch. Allows for Lid Switch control. When this is set to on, the controller will shut power off to the elements, sound an alarm and give a LID OPEN message if the lid is opened during a firing. When this is set to off, the kiln will continue to fire, even if the lid is opened during the firing.

Version 3.16.0

1. Added "Download Log File" under Menu -> Configuration -> Communications -> Download Log File. Allows the user to export logged temperature data by time intervals. See manual for instructions for how to download the log files.
2. Improved PID control, with adjustable gain under Menu-> Adjustments -> PID Gain. The default setting for PID Gain is 18 for most brick kilns. It should be set from 4-8 for fiber kilns or when using protection tubes. Consult your kiln manufacturer before making changes to this setting.

Version 3.17.0

1. Added manual entry of Serial Number under Menu -> Serial Number. This is needed for non-serialized controllers to allow use with the Phone App.

2. Added additional 18 Custom User Programs for a total of 30 user programs under Load -> Custom. User programs 1-12 are 32 segments long and user programs 13-30 are 8 segments long.
3. Added logged events (Start of Ramp, Hold, Diagnostic, Percentage of Power, Error Codes, Lid Open, etc.) to Download Log File. Users can now download the log files by time intervals or by event.

Version 3.19.0

1. Added the Copy function under Edit. The copy function allows the user to copy the loaded program to one of the 30 Custom User programs. The list of user programs will appear when Copy is pressed.
2. Changed Download Log File to Export Log File under Menu -> Configuration -> Communications -> Export Log File. The function is the same.

Version 3.22.0

1. Added Manual WiFi setup which allows for manual input of a hidden WiFi network. Found under Menu -> Configuration -> Communications -> Manual WiFi Setup.
2. Additional diagnostic data added to the data collection to track the percent of power used by each section or zone of the kiln.

Version 3.23.0

1. Fixes only

Version 3.24.0

1. Went to single log file per firing
2. Added program name to log file

Version 3.25.0

1. Changed timing of temperature below set point error from 18 seconds to 3 minutes to accommodate activities that require door/lid opening.
2. Added automatic gain control for the PID algorithm

Version 3.26.0

1. Added thermocouple noisy reading detection

Version 3.27.0

1. Internal Release Only

Version 3.28.0

1. Added timeout for firmware download
2. Set board error temperature to 180°F as default
3. Added indefinite hold feature
4. Changes to PID operation
    a. Faster control loop timing
    b. Added dampening factor to compensate for high power kiln
5. Removed fan message at complete for Genesis Mini
6. Changed Error 2 timing to 20 minutes to all for long door openings

Version 3.29.0

1. Fixes only

Fixes and operational changes

Version 3.2.0

1. Made program settings view only after delayed start is initiated.
2. Fixed insert segment and delete to end, in table edit mode.
3. Fix storage of firing results
4. Change web data collection rates, 30 sec while firing, not firing but temperature above 200 every 5 minutes, else every 15 minutes or if program changed
5. Fix memory mismatch caused by graphing
6. Change max delay start time to 99 hours
7. Added warning if download version is same as current version

Version 3.3.0

1. Bad COE value locks up display
2. can't cancel dialog from restore TCs, cone offset, or glass
3. Edit a segment setting in glass table then graph and it loses the setting

Version 3.6.0

1. Corrected bad temperature readings if board temp exceeded 150 giving e-d, e-3 or e-2's. Increased cjc table to 180 and limited board temp to 180

Version 3.8.0

1. Cannot connect to networks with long name

Version 3.16.0

1. Fixed incorrect glass profiles in novice mode

Version 3.19.0

1. Fixed problem with delay start in novice mode
2. Fixed problem with slow down ramp causing E-5
3. Fixed problem with slow up ramp causing E-1

Version 3.20.0

1. Fixed remote start from KISS

Version 3.21.0

1. Fixed overflow problem with fast down ramp to below 70F

Version 3.22.0

1. Updated WiFi libraries
2. Added factory test routines

Version 3.23.0

1. Fixed graphing problem for very long firings
2. Fixed cone correlation function for cone 022

Version 3.24.0 / no fixes

Version 3.25.0

1. Fixed WiFi scan issue with large number of SSID's
2. Changed down ramp transition to avoid error 2 with 9999 ramp
3. Version 3.25.0

Version 3.26.0

1. WiFi Problem when special characters in program name
2. Fixed download issue with AT&T hotspots

Version 3.27.0

1. Internal Release

Version 3.28.0

1. Fixed cancel button on firmware update screen
2. Adjust touch screen calibration to improve Genesis Mini touch

Version 3.29.0

1. Set last error values to 0 during calibration
2. Fixed cost calculation issue caused by PID changes