

Heller Industries Inc.

Software log: Heller Oven Operating Program for HC2 ctrl. on Windows XP / Vista / 7

PN: 591753 Rev: C

<u>Software Version</u>	<u>ECN #</u>	<u>Change/Update Description</u>
5.0.0.1	9/29/2008	<ul style="list-style-type: none"> - Continuation from 4.0.1.8 (XP) version - Added 1914 (14 zone) model - Overview screen resolution changed to 1024 by 768 - Updated SECS/GEM capability - Added Lot tracking via SECS/GEM feature - Added Monitoring temperature feature using 2nd HC2 controller (serial communication to main HC2 ctrl). Monitoring HC2 driver version 9.0.0.0. - Added feature for Blower RPM data read via SECS/GEM - Added Belt speed range auto switch digital output option - Added Custom digital switch option - Removed default labels from I/O selection; only I/O numbers are displayed
5.0.0.2	10/6/2008	<ul style="list-style-type: none"> - Added HellerSECSGEM version 1.0.10.0 compatibility - VID 30554 is updated using UpdateU1VID, it was I4 type earlier
5.0.0.3	12/10/2008 Not released	<ul style="list-style-type: none"> - Recipe shadowing to allow recipe upload/download/delete when it is running (Heller SECSGEM) - Update setup wizard XML file to add channel table. - Update HC2 drivers to allow Offset entry program to work on newer build HC2 (with rev2 of Cirrus logic processor)
5.0.0.4	Rev-A ECN080069-000 12-29-2008	<ul style="list-style-type: none"> - Fixed a crash with Edit mode - Update HC2 drivers to allow voltage style inputs on TDM for belt - Fixed a rare issue related to TDM channel type read. This is related to K-type or voltage style i/p. J-type T/C was never implemented. - Coupler control rail fix for 3 rail 2 conveyor belt configuration.
5.0.0.5	Jan-20-2009	<ul style="list-style-type: none"> - Added Smema9851 interface option which addresses smema upstream signal. Upstream stays ready when product entering the oven until board length + board spacing is achieved, then signal goes to not-ready for 0.5sec and comes back to ready state to accept next board.
5.0.0.6	Feb-04-2009	<ul style="list-style-type: none"> - Fixed an issue where Smema(II or 9851) options were not getting set to the HC2 controller. This issue was noticed on a Vista OS and 5.0.0.5 version. - Fixed a rare issue where hot job was not getting loaded from a cooldown mode. As soon as recipe loaded oven was going into cooldown.

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5.0.0.7	Mar-16-2009	<ul style="list-style-type: none"> - Added Smema with Belt Stop option (Cure Oven SMEMA) - When Belt SP=0, light tower stays Yellow
5.0.0.8	Mar-25-2009	<ul style="list-style-type: none"> - Fixed issues noticed related to board spacing and SMEMA9851 with belt stop
5.0.0.9	Apr-15-2009	<ul style="list-style-type: none"> - Added settable belt stop delay for cure oven smema - Added option: new board delay for SMEMA 9851 - Added option: Entrance board Jam/Stop warning using predefined board length - Added option to disable board length from board drop calculation
5.0.0.10	Apr-24-2009	<ul style="list-style-type: none"> - Fixed an issue noticed on 5.0.0.9 for board drop not working under certain condition (while board is entering if exit sensor is blocked). - Board entrance and exit Stop are made independent of animation /brd count when predefined board length is selected. - Heat channel PB=15 as a new default value; old value was 25. - Added a function for KIC to check if oven is in Remote or Local control.
6.0.0.0	June-12-2009	<ul style="list-style-type: none"> - Continuation from 5.0.0.10 - Fixed: in 5.0.0.10 if SMEMA9851 is enabled without board animation, then entrance and exit part of smema did not work. - Oven Barcode Program compatibility - VIP mode option for Samsung. Create vip or vip.txt file in c:\oven folder and then run oven program to activate VIP mode - Feature added: Auto log down to operator level - Feature added: Auto acknowledge warning when click OK on pop up message
6.0.0.1	July-13-2009	<ul style="list-style-type: none"> - Bug fixed: auto log down to operate mode: once log down to operate mode, SP can still be changed - Bug fixed: - autopurge/standby option did not worked for closed loop Dansensor control. High flow o/p stayed on even after purge timeout. Without closed loop, once low flow is active, purge is not activated by sensor input. <p>Note: For Autopurge/standby option, all entrance sensor inputs are always active even board/smema options are not selected.</p> <ul style="list-style-type: none"> - Bug fixed: 1913 model with cool zone1 heater setup, cool zone PV was grayed out. 1914 model: zone 14 PV were grayed out.

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6.0.0.2	Sep-18-2009	<ul style="list-style-type: none"> - DY sensor capability - Hyperterminal read for Hygrometer - When program starts, allow time for HC2 to boot completely before generating communication error - Added SECSGEM events 1076-1083 for board entry and exit - Added feature to allow custome bitmap for N2 on/off and CBS up/down buttons. (N2ON.bmp, N2OFF.bmp, CBSUP.bmp, CBSDOWN.bmp). - Startup sequence delay for "Audible alarm on all warning" option is removed.
6.0.0.3	ECN 090037-000 Nov-19-2009	<ul style="list-style-type: none"> - When "Disable autoacknowledge warnings" selected, autoacknowledge warnings for heat-belt warning untill startup sequence is finished +2min. - Audible alarm on all warnings is not active during startup sequence +2min. - Bug fix: Calender issue with Japanese language - Bug fix: Unstable belt speed when exit sensor is blocked - HC2 driver version check during program start is updated to check for exact match. Previous versions were checking only for older version.
6.0.0.4	12-10-2009	<ul style="list-style-type: none"> - SMEMA operation tie-up with barcode program - improved barcode-smema operation on dual lane smema - Fixed: N2 button bitmap with password protection was not representing actual N2 on/off when clicked Cancel on password window. - Recipe name in Winkic when cooldown is loaded displays COOLDOWN now.
6.0.0.5	Jan-28-2010	<ul style="list-style-type: none"> - Added Features: <ul style="list-style-type: none"> - Blower RPM display on overview screen (Heat and cool zones) - Data logging for blower RPM - Message/Warning/Alarm for heat zones based on blower RPM - Added fix for ActiveX function calls (KIC, ECD). Issue was that user thread can request data before communication thread populates buffer data. - Fixed: single channel Dansensor communication message was not regenerating after acknowledged in alarm window.
6.0.0.5 patch	Jan-28-2010	<ul style="list-style-type: none"> - Improved HC2 comm loss error mechanism. Allow 15sec to recover communication, (changed from 5sec).
6.0.0.6	Mar-08-2010	<ul style="list-style-type: none"> - ActiveX function change for rail width change (for Mydata Line Control software).

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6.0.0.7	Mar-26-2010	<ul style="list-style-type: none">- Fixed: 1914 R-L model overview layout- Fixed: 1913 R-L with visible flux heater overview layout- Fixed: 1913 with non-visible flux heater channel issue. Flux1 heater channel was hidden under top13 zone.
6.0.0.8	May-05-2010	Touch screen optimized version
6.0.0.9	May-21-2010	<ul style="list-style-type: none">- Add Top and Bottom temperature zones graph view- Separate digital output for Audible Warning conditions- Production capacity display feature added- HC2 global high process alarm max limit changed from 650C to 1000C.- SECSGEM VID 1011, 1013 generated to match with manual. -1 is added for unused/disabled channels, same as VID1010.- ActiveX notification event correction for events 20,21,60,61
6.0.0.10	June-16-2010	<ul style="list-style-type: none">- Added intelligent exhaust option- Added standby blower speed option- New ActiveX function to read Flux heater channel SP & PV
6.0.0.11	Aug-10-2010	<ul style="list-style-type: none">- Predefined board animation length (CO60122)- Added "STANDBY MODE" label on overview when blower standby mode is active- ActiveX event 61 (board exit) correction- Setup wizard: allow independent sensor distance for Lane 1 and 2.- Data logging in decimal for PV and OP%- Fixed: CBS up/down button display when set to Classic mode- Fixed: CC Rail Jog mode overview display- Fixed: Red light and audible warning on board drop/stop option
6.0.0.12	Sep-13-2010	<ul style="list-style-type: none">- Added idle mode energy saving feature; a standby recipe or cooldown mode can be loaded when no boards in oven for set time.

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6.0.0.13	Nov-01-2010	<ul style="list-style-type: none">- Fixed an issue where oven was not controlling to SP when recipe is loaded after autoclean job or by barcode program- Added option: Custom Warning/Alarm 3- Added option: Board warning digital output per lane- Special (SEC) light tower on-off control- Added new event to log recipe name after midnight date roll over- Fixed an issue with KIC functionality for take/release control, set point transfer and saveas kicprofile recipe. (KIC2000 version 3001).- removed "Regain Control" sub menu under Utilities- Pop up messages for oven release/regain control are removed. Append title bar to display remote control when oven program released control to third party program like SECS/GEM- Improved rail exercise functionality- Fixed an issue when rail is switched from manual to computer mode during recipe load; wait for user response before moving rail- Fixed an belt stop issue when Auto log down feature is enabled. This was noticed in 6.0.0.7.
6.0.0.14	Dec-27-2010 Rev-B ECN110001-013	<ul style="list-style-type: none">- Max board count in oven with SMEMA option added- Fixed: an issue for warning message needs to click more than once
6.0.0.14A	Mar-25-2011 Rev-C ECN110018-013	<ul style="list-style-type: none">- Fixed an issue with high CPU usage when oven program is in operate mode running recipe