

Agilent 8860 GC Firmware

Release Notes - Revision 3.2.0.130

Notices

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Firmware/Software Revision

This guide is valid for the 3.2.0.130 revision of *Agilent 8860 GC Firmware*

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Table of Contents

| 1 | Document History | 4 |
|---|---------------------------------------|----|
| 2 | Introduction | Ę |
| 3 | Compatibility | (|
| 4 | Support Information | 7 |
| 5 | Agilent 8860 GC System - What's new? | Ġ |
| 6 | Resolved Issues in revision 3.2.0.130 | 10 |
| 7 | Previous Versions | 12 |
| 8 | Firmware Update Program | 61 |

1 Document History

The table below lists all changes that have been made to this document.

| Date | Version | Description |
|---------------------------------|----------|--|
| 16 th October 2023 | Rev A.01 | Initial Release (added 2.8.0.219 Release Note) (added previous versions release) |
| 8 th February 2024 | Rev A.02 | Added 2.8.1.6 Release Note |
| 1 st June 2024 | Rev A.03 | Added 2.9.0.345 Release Note |
| 20 th September 2024 | Rev A.04 | Added 3.0.0.181 Release Note |
| 10 th February 2025 | Rev A.05 | Added 3.0.3.21 Release Note |
| 20 th June 2025 | Rev A.06 | Added 3.1.0.380 Release Note |
| 20 th September 2025 | Rev A.07 | Added 3.2.0.130 Release Note |

2 Introduction

The purpose of this document is to provide users of the Agilent 8860 GC system (G2790A) guidance to relevant support documentation that contains further levels of information and detail

Table 1 Terms and abbreviations used in this document

| Terms | Description |
|-------|---|
| SSB | Software Status Bulletin |
| CDS | Chromatographic Data System |
| U | Update |
| SP | Service Pack |
| HF | Hotfix |
| SR | Service Release |
| [xx] | Final Build Numbers of a released product |
| DSA | Data System Adapter |

For our Regulated Customers

When any change is made to Agilent software/firmware, the validation status of the software needs to be re-established by the user/customer.

Whenever software/firmware is changed, a validation analysis should be conducted to validate an individual change and determine the extent and impact of that change on the entire system.

3 Compatibility

Supported Agilent Data Systems

OpenLab CDS (2.8, 2.7, 2.6, 2.5, 2.4 or higher)
OpenLab CDS ChemStation Edition (C.01.10, C.01.09, LTS)
GC/MS MassHunter Acquisition (10.2, 10.1, 10.1SR1 or higher)
(MassHunter 10.0 required to configure 8890 and 8860 GCs)
OpenLab CDS EZChrom Edition (A.04.10, A.04.09)

Supported Agilent GC Driver

Agilent GC Driver (4.4.92, or higher)

4 Support Information

- Agilent recommends using always the latest firmware revision of a firmware in order to avoid interoperability issues.
- Generally, Agilent recommends keeping the GC instrument firmware always current.

Notes for Agilent 8860 controlled by non-Agilent Chromatography Data Systems (CDS)

- The 3rd-party CDS software vendor is responsible for compatibility testing with the respective CDS revision.
- The 3rd-party CDS software vendor defines the minimum firmware revision required for CDS compatibility.
- The 3rd-party CDS release notes issued by the respective CDS vendor may use different terminology for the firmware requirements such as "tested firmware", "supported firmware", "firmware requirements", "minimum tested firmware", etc.

Waters

Waters have recently released their latest Agilent driver, instrument Control Framework (ICF) Version 2.6 Update 2 in Empower 3

For GC Control: This release adds support for Agilent GC and the 7697A Headspace sampler. The supported GCs are:

- New: 8860 GC
- New: 8890 GC
- Intuvo 9000 GC
- 6850 GC
- 6890N GC (Note that 6890A and 6890+ must have had LAN cards added)
- 7820 GC
- 7890A & 7890B GCs
- 7697A Headspace Sampler

NOTE - Be careful to not confuse the Agilent driver, Instrument Control Firmware, (ICF) with the Waters Native driver, ICS, Instrument Control Software.

Both are allowed by Waters and both can be installed on the same system at the same time.

Thermo Fisher

Thermo Fisher have recently released their latest Agilent driver, instrument control software Chromeleon 7.2

This release adds support for Agilent GC and the 7697A Headspace sampler. The supported GCs are:

- · Intuvo 9000 GC
- 6850 GC
- 6890N GC (Note that 6890A and 6890+ must have had LAN cards added)
- 7820 GC
- 7890A & 7890B GCs
- 8860 GC
- 8890 GC
- 7697A Headspace Sampler

OQ/PV - Validation Information

- If a firmware upgrade has been performed, normally no revalidation of the module/system is required. This is stated in the released Service Note applicable to the release.
- In addition, this information is stated further on in this document.

5 Agilent 8860 GC System – What's new?

What's new in 8860 GC firmware 3.2.0.130?

- Bug fixes as detailed below.

6 Resolved Issues in revision 3.2.0.130

The current shipping firmware for the 8860 is 3.2.0.130

Released on 20th September 2025

https://download.chem.agilent.com/firmware/8860_FW_3.2.0.130.tgz.gpg

To download this version, use GC Firmware Update Tool 3.2.8.0 or greater.

Updating to this firmware does not require instrument requalification.

Service Note Number: D0137757

Table 2 Resolved Issues (Agilent 8860 GC System 3.2.0.130)

| Issue ID | Current Behavior | Resolution |
|----------|--|------------|
| 046328 | 8860 Browser Interface - sequence run is not supported from Browser Interface | Resolved |
| 046771 | 8697- Lost connection during sequence run even ALS sequence run on another inlet leading to system abort | Resolved |
| 046828 | Allow users to disable SMB Share | Added |
| 046906 | Browser Interface: update code to add the y-axis label on RT plot | Resolved |
| 046910 | Touch Screen - Disable start button when instrument is in sleep mode | Resolved |
| 046918 | Browser Interface - One event type of "Detector Negative Polarity" not display | Resolved |
| 046919 | Browser Interface - Untranslation happens on the list of signal source | Resolved |
| 046920 | Browser Interface - Untranslation happens on Browser Interface method report | Resolved |
| 046943 | Browser Interface - In Method\Events, the comp and column comp detector items are removed | Resolved |
| 046957 | Untranslation: "Cancelled while waiting for ready" in logs | Resolved |
| 046959 | The terminology of the message should be changed from setpoint/actual to expected/target in PreRun Flow Test Log Message | Resolved |
| 047037 | Detector Evaluation Report not present - undefined error FW 3.0.3.21 | Resolved |

| 047089 | Request to show inlet pressure during column bakeout maintenance procedure | Added |
|-----------------|---|----------|
| 047107 | Enhancement: Include instrument IP in Browser title bar | Added |
| 047150 | DA Express: the column of "DA Method" is missing in "Sequence table" on Browser Interface | Resolved |
| 047251 | GC Firmware update tool revision 3.1.30.0 report error "Nothing to update" when upgrade 7697 firmware | Resolved |
| 047253 | 8697 pressure unit is always Psi even after changing GC unit | Resolved |
| 047262 | False displayed message during Inlet Pressure zeroing | Resolved |
| 047283 | Improvement to the auto-zero process within the diagnostic test to properly account for the septum purge valve being not bubble tight | Resolved |
| PLCACS W-384 | DA Express-Integration Events table downloads wrong value types | Resolved |
| | | |

7 Previous Versions

This section details previous versions of 8860 firmware giving release notes.

3.1.0.380 Firmware

Released on 20th June 2025

https://download.chem.agilent.com/firmware/8860_FW_3.1.0.380.tgz.gpg

To download this version, use GC Firmware Update Tool 3.1.30.0 or greater.

Updating to this firmware does not require instrument requalification.

Service Note Number: D0133023

Table 3 Resolved Issues (Agilent 8860 GC System 3.1.0.380)

| Issue ID | Current Behavior | Resolution |
|----------|---|------------|
| 044702 | split vent trap restriction test endless loop on 8860FW 2.7.0.207 | Resolved |
| 045879 | The users have to refresh if they're changing the sleep/wake method from different UIs | Resolved |
| 045905 | Sequence with short runs and lots of post-washes causes ALS Error 103 | Resolved |
| 046188 | Request to label Detector type on GC online plot | Resolved |
| 046304 | There is no way to see user-defined EMF counters in the Browser Interface | Resolved |
| 046349 | Leak and Restriction test fails with one 10 meter * 100 um column for the test attempts to get to a setpoint above the maximum pressure allowed | Resolved |
| 046423 | Helium Conservation Module: Reset user zero not present in 'calibration tab' | Resolved |
| 046457 | Pressure needed for Leak and Restriction Test cannot be achieved with a restricted column ($5m \times 100um$) | Resolved |
| 046511 | Different PCM Configuration name in Browser Interface and GC driver | Resolved |
| 046766 | DA Express - The plot color palette is not displayed after resuming from maximum | Resolved |
| 046782 | There're no options available for 8860 SSL PID Values | Resolved |

| 046788 | Manual configuration is not successful | Resolved |
|--------|---|----------|
| 046849 | 8860 Touch Screen: Valve status will not update during the sequence run | Resolved |
| 046881 | When performing leak and restriction test on GC with HS system, if the column flow is higher than 4mL/min, the actual total flow fluctuates a lot | Resolved |
| 046925 | 8860 GC oven type conversion from 110V to 230V is not successful | Resolved |
| 046931 | Inlet Pre-run Flow Test has variability in setpoints | Resolved |

3.0.3.21 Firmware

Released on 10th February 2025

https://download.chem.agilent.com/firmware/8860_FW_3.0.3.21.tgz.gpg

To download this version, use GC Firmware Update Tool 3.0.1.0 or greater.

Updating to this firmware does not require instrument requalification.

Service Note Number: D0127242

Table 4 Resolved Issues (Agilent 8860 GC System 3.0.3.21)

| Issue ID | Current Behavior | Resolution |
|----------|---|------------|
| 046327 | LCOMM Communication Issues with 5977 | Resolved |
| 046366 | GC system fault-Fault code, 0x00000200, Error code, 1000600a, sequence abort | Resolved |
| 046421 | GC with Modi connected showing MSD Diagnostic Tests | Resolved |
| 046425 | PP Inlet - post run defect in flow control mode | Resolved |
| 046522 | GC Fault 1000600a//0x00000200 | Resolved |
| 046544 | H2 Sensor appears to be zeroing after each run. Adding time to the GC Cycle time | Resolved |
| 046579 | Waters: They report a need for 500 mL flow rate. Limits fixed to be 600 mL/min for all gas types. | Resolved |

| 046586 | Latest VICI actuator requires GC FW changes to pass EFT | Resolved |
|--------|---|----------|
| 046606 | Phone Browser UI Stuck on Loading Wheel Upon Startup | Resolved |
| 046607 | H2 Sensor (Salus) giving error messages reporting "Hydrogen Sensor: Not Functioning" and "Hydrogen Sensor: Invalid Environment" | Resolved |
| 046633 | Can't Download Diagnostic Data Collection csv | Resolved |

3.0.0.181 Firmware

Released on 20th September 2024

https://download.chem.agilent.com/firmware/8860_FW_3.0.0.181.tgz.gpg

To download this version, use GC Firmware Update Tool 3.0.1.0 or greater.

Updating to this firmware does not require instrument requalification.

Service Note Number: D0120560

Resolved Issues:

Table 5 Resolved Issues (Agilent 8860 GC System 3.0.0.181)

| Issue ID | Current Behavior | Resolution |
|----------|---|------------|
| 036444 | When make the Total syringe volume used exceed 75% syringe size on Browser UI, it still allows downloading and saving the method | Resolved |
| 041981 | Detector Evaluation Enhancement - Detector Evaluation initial and final baseline should not fail because user selects Zero Signal | Resolved |
| 043867 | Option to enter maintenance mode and not cool the transfer line if there is an \ensuremath{MS} | Resolved |
| 044562 | Pulsed Pressure Help updates - available in English | Added |
| 044756 | Enhancement request-print the serial number of the main parts | Added |
| 045091 | UI: Inlet and Detector Name Rendering | Resolved |
| 045387 | 8697: System reported "flow not ready" and "Pressure not ready" after every injection when purge time starts | Resolved |
| 045541 | Maintenance Mode Options- remain cool or return to previous operating conditions | Resolved |

| 045899 | 8697: System report "Index was out of range and sequence cannot run if change GC and PC clock | Resolved |
|--------|---|----------|
| 045915 | Hydrogen sensor initializing issue under MPS FW Rev.3.1.0.2 | Resolved |
| 045925 | 8697: Appended line on a sequence doesn't start | Resolved |
| 046020 | Add message to turn off split flow for Thermal Desorber in inlet leak and restriction test | Resolved |
| 046027 | Change EPC Setpoint resolution to 0.001 psi throughout 0 - 150 psi range | Resolved |
| 046083 | 8860-5977C: there's no 5977C option in MS configuration list | Resolved |
| 046124 | EMF issue causing GC/MS instrument to disconnect | Resolved |
| 046139 | Add Health Report section chooser for Serial Numbers | Added |
| 046143 | GC system fault code 0x01000000 MS communication lost | Resolved |
| 046153 | Helium Conservation Module declared as 'broken' if range for uninstalled pressure sensor is not in EEPROM | Resolved |
| 046158 | 8860 Diagnostic Test >Inlet> Method Pressure Check makes system fault | Resolved |
| 046288 | Function: Run starts without the correct value during set Oven Standby | Resolved |
| 046311 | 8697: Instrument is stuck in the Aborting state after a HS sequence is aborted | Resolved |

2.9.0.345 Firmware

Released on 1st June 2024

http://download.chem.agilent.com/firmware/8860_FW_2.9.0.345.tgz.gpg

To download this version, use GC Firmware Update Tool 2.10.9.0 or greater.

Updating to this firmware does not require instrument requalification.

Service Note Number: D0115895

Resolved Issues:

Table 6 Resolved Issues (Agilent 8860 GC System 2.9.0.345)

| Issue ID | Current Behavior | Resolution |
|----------|---|------------|
| 037355 | DA Express integration baselines need to connect better with the peak traces | Resolved |
| 040912 | Troubleshooting-revert troubleshooting changes | Resolved |
| 042742 | Troubleshooting wizard does not clear previous changes after restarting Troubleshooting | Resolved |
| 043479 | Review High Inlet Pressure Maintenance and Diagnostics | Resolved |
| 043759 | Hydrolnert: Allow configuration of Hydrolnert ion source on SQ and prevent runs if configured carrier gas is Helium | Modified |
| 044218 | Method Supply pressure check not found in 'help' | Resolved |
| 044357 | With Helium Conservation Module, the GC should be able to offer turning on He when doing different troubleshooting steps requiring inlet pressure | Resolved |
| 044410 | Investigate Helium Conservation Module Purge Time | Modified |
| 044431 | Troubleshooting - No Peaks - No Flame is OK | Modified |
| 044628 | GC firmware update sometimes fails to update ALS due to 'device not present' | Resolved |
| 044838 | Browser Interface Events Do not work through Reverse Proxy | Resolved |
| 044850 | Download button not working with gather log files- Browser Interface | Resolved |

| 044867 | G4567A ALS- Solvent Wash Mode: A-A2,B-B2 and A-A6,B-B6 are active in Browser Interface | Resolved |
|--------|--|----------|
| 044900 | Browser Interface _undefined appear on blank evaluation report | Resolved |
| 044926 | CDS Blank Eval Failure/Abort on Failure holds instrument Not Ready until cleared from Browser Interface or Touchscreen | Resolved |
| 044933 | 8697 Maintenance install transfer line to GC- better phrasing | Modified |
| 044936 | Headspace PID Change during Diagnostic | Resolved |
| 044944 | Browser Interface: The Performance Evaluation Report does not include the vial position | Added |
| 044959 | 8697- Replace sample Loop- 'replace the sample loop adapters' should Inform customer on what 'sample loop adapter' is | Modified |
| 044988 | System Health Report: Add Oven Configuration Details | Added |
| 045053 | Oven going into Standby mode after a run has been started | Resolved |
| 045085 | H2 Sensor: add ability to disable the use of an installed, configured module | Added |
| 045101 | Large Volume Syringe Carriage Air Gaps | Resolved |
| 045105 | Enhancement: Put "null" in for empty parameters to scripts | Added |
| 045210 | 8860 PPIP safety concern: There's no error alert when PPIP has leak at flow control mode | Modified |
| 045238 | Extend Health Report with more detail on ALS | Added |
| 045239 | Incorrect max ramped column flow value | Resolved |
| 045256 | 8697 & 8697 XL - The function of vial vent between extractions does not work in Multiple extraction mode | Resolved |
| 045318 | PSD Calibration Purge Title | Modified |
| 045327 | "Setpoint Changed During Run" in run log at the end of HS Sequence | Resolved |
| 045361 | Request to provide driver interface to "Park / Unpark" HeadSpace for 8697 | Added |

| 045381 | 88xx system setup wizard upexpectedly happens after new instruments installation | Resolved |
|---------|---|----------|
| 045402 | For 8860/8890 with Gas sample selector, the Equilibrium can't be displayed in Browser Interface and Touchscreen | Resolved |
| 045403 | 8860 Browser Interface: valve number 5&6 should be disabled | Resolved |
| 045408 | Valve time in runtime event is longer than GC run time | Resolved |
| 045444 | Browser Interface displays incorrect column configuration | Resolved |
| 045563 | Browser Interface Run Time Events table is not holding the selected Event Type | Resolved |
| 045607 | Browser Interface wake method loads the wrong one when the Wake Up button is pressed | Resolved |
| 045616 | System Health Report provides the wrong syringe size in the report | Resolved |
| 045764 | allow customers calibrate the TCD when the cell is replaced | Added |
| 045770 | 8697- The default id of Prosteel transfer line is 0.546mm which is wrong and cannot be edited | Resolved |
| 045779 | Convert inlet EPC module temperature units to degrees C in low level signal | Resolved |
| 045810 | SCD with Hydrogen carrier gas has trouble when oxidizer gas not present | Resolved |
| 045886 | TCD calibration routine leaves detector hot at 250C | Resolved |
| 045898 | The time remaining on the HS sequence run is wrong after changing GC clock | Resolved |
| 045904 | H2 Sensor - Uncalibrated Message | Resolved |
| 1077824 | DA Express-Double-click on the sequence results list leading failure on loading data | Resolved |
| 1077827 | DA Express-Pop-up "Please choose points in increasing run time" occasionally during manual integration | Resolved |
| 1077830 | The chromatography may get stuck in loading mask during manual integration or re-integration | Resolved |
| 1077832 | DA Express-After new data loaded, the integration tool is keeping pressed, but its function is zoom | Resolved |
| | | |

2.8.1.6 Firmware

Released on 8th February 2024

http://download.chem.agilent.com/software/8860_FW_2.8.1.6.tgz.gpg

To download this version, use GC Firmware Update Tool 2.9.9.0 or greater.

Updating to this firmware does not require instrument requalification.

Service Note Number: D0110353

Resolved Issues:

Table 7 Resolved Issues (Agilent 8860 GC System 2.8.1.6)

| Issue ID | Current Behavior | Resolution |
|----------|---|------------|
| 044977 | Ignore Blank Start Requests While Already Running | Resolved |
| 045246 | 8860 GC TCD Makeup/Reference flow control abnormal when Makeup/Reference configured as Ar | Resolved |
| 045273 | 8697 Intermittently report "Headspace Sequence Stopper by User" | Resolved |

2.8.0.219 Firmware

Released on 16th October 2023

https://download.chem.agilent.com/firmware/8860_FW_2.8.0.219.tgz.gpg

To download this version, use GC Firmware Update Tool 2.8.11.0 or greater.

Updating to this firmware does not require instrument revalidation.

Service Note Number: D0038219

Table 8 Resolved Issues (Agilent 8860 GC System 2.8.0.219)

| Table 0 | Table 0 Resolved Issues (Agliciit 0000 GO System 2.0.0.217) | | | |
|----------|---|-------|--|--|
| Issue ID | Issue ID Current Behavior | | | |
| 041095 | Argon for Carrier gas and TCD make up gas | Added | | |
| 041561 | Add Communication with 7697A in 8860 Browser Interface for synchronizing HS time with GC $$ | Added | | |

| 043484 | Firmware Update Utility-add error if the 'temp' file starts to fill up | Resolved |
|--------|--|----------|
| 043554 | Firmware update while instrument in maintenance mode not allowed. Display message. | Resolved |
| 043856 | BrowserUI Startup Time improved | Resolved |
| 044122 | Option to load method from GC or a method saved to the GC for Sleep or wake method in the scheduler | Added |
| 044162 | TCD Warning, detector Temperature < 130C message confusing | Modified |
| 044227 | Inlet leak and restriction test failing due to restriction being too large | Resolved |
| 044236 | 8860 TouchScreen: "readiness reasons" should be replaced with "Alerts" to keep consistent with BrowserUI. | Modified |
| 044363 | HEC control over TCD configuration in user interfaces. TCD gas config should be greyed out if HEC enabled | Resolved |
| 044384 | Headspace: No detail info for headspace after abort running | Resolved |
| 044412 | Need to change GC parameters during a run. New feature in GC Feature Selection. Change is method dependent | Added |
| 044416 | EMF Alert: Unknown Device Component | Resolved |
| 044427 | Add a sleep and a wake button to BrowserUI much like DSA functionality | Added |
| 044462 | Browser System Fault after Editing Running Sequence, saving, Editing again and saving | Resolved |
| 044692 | 8860 DA Express: DA method cannot be saved and the message prompt was the "method file already exist". | Resolved |
| 044703 | 8860 BrowserUI - Pressure decay test fail for PPIP | Resolved |
| 044710 | TCD Filament calibration not working correctly | Resolved |
| 044732 | 8697 - Reporting ""sample probe restriction" warning while leak and restriction test passed well | Resolved |
| 044770 | Manufacturing Data Location Creation for SP1 Analyser info | Added |
| 044816 | TCD Filament Calibration Procedure missing the calibration point of 250C | Resolved |

Resolved

2.7.0.207 Firmware

Released on 26th May 2023

https://download.chem.agilent.com/firmware/8860_FW_2.7.0.207.tgz.gpg

To download this version, use GC Firmware Update Tool 2.8.10.0 or greater.

Updating to this firmware does not require instrument revalidation.

Service Note Number: D0033037

Resolved Issues:

Table 9 Resolved Issues (Agilent 8860 GC System 2.7.0.207)

| Issue ID | Current Behavior | Resolution |
|----------|--|------------|
| 043857 | Ability to use/create a composite columns in browser UI | Resolved |
| 041955 | Plotted Signals not aligning on the Browser | Resolved |
| 043124 | www.agilent.com/chem/supplies for GC maintenance does not work as expected | Resolved |
| 043628 | Pulsed Split Injection with HS system does not have enough total flow to reach their pulse pressure when the system starts preparing | Resolved |
| 043636 | EMF counter is not correct | Resolved |
| 043661 | 8697 HS: Tray FW not downgradable | Resolved |
| 043902 | Unable to print Sleep/Wake Methods | Resolved |
| 044052 | User Troubleshooting added to FID ignition failure | Modified |
| 044053 | Allow GC to monitor pressure during maintenance tasks | Modified |
| 044061 | 8860 inlet leak and restriction test doesn't tell user to uncap septum purge | Modified |
| 044121 | APG Stop signal not sent at end of run | Resolved |

| 044126 | Scheduler information is not complete in browser interface help with FW 2.6.0.306 | Resolved |
|--------|---|----------|
| 044127 | FW 2.6.0.306 allows the selection of 5977 and 5977B but not 5977C | Resolved |
| 044131 | Invalid IP address shown on the 8860 LUI does not match internal IP | Resolved |
| 044154 | Valve State added to Diagnostic Signal | Modified |
| 044238 | Add detailed sequence logbook messages for ALS actions | Modified |
| 044324 | | |

2.6.0.306 Firmware

Released on 5th January 2023

http://download.chem.agilent.com/firmware/8860_FW_2.6.0.306.tgz.gpg

To download this version, use GC Firmware Update Utility 2.7.1.0 or greater.

Updating to this firmware does not require instrument revalidation.

Service Note Number: D0028247

Table 10 Resolved Issues (Agilent 8860 GC System 2.6.0.306)

| Issue ID | Summary | Current Behavior | Impact Area |
|----------|--|---|--|
| 032605 | Browser Interface Status does not show the Sequence, Method, or Sample Name when run from GC driver | Browser Interface Status does not show the Sequence, Method, or Sample Name when run from GC driver | Browser Interface Status Tab |
| 034076 | Add diagnostics information to Service Mode in 8860 Browser Interface | There is no Diagnostics information Under Service Mode, actual a configuration interface | Setting/Service Mode on Browser Interface |
| 038963 | Set Column Length and Adjust Column Length don't work in Browser Interface. | Set Column Length and Adjust Column Length don't work in Browser Interface | Column Calibrate on Browser Interface |

| 039003 | Detector Evaluation does not support 8697 headspace OQPV checkout | Detector Evaluation does not support 8697 headspace OQPV checkout | Add 8697 HS Det Eval on Browser Interface |
|--------|---|---|---|
| 040269 | 8697: In the Browser Interface, there is no the selection of Reset Headspace to Restore Factory Defaults. | there is no the selection of Reset Headspace to Restore Factory Defaults on Browser Interface | Reset HS 8697 on Browser Interface |
| 041144 | Suggest to add Reset function on 8860 Touchscreen | NO Reset function on 8860 Touchscreen | Add Reset on 8860 Touchscreen |
| 042302 | Browser Interface: Gasifier disappear in method when loading an old method w/o Gasifier | Gasifier disappear in method when loading an old method w/o Gasifier | Gasifier on Browser Interface |
| 042322 | MSD Configuration: Provide option to correctly configure MS Transfer Line if it was missed during First Time Setup | If the FSE did not have the MS Transfer Line heater plugged in before starting First Time Setup, it is confusing to figure out what needs to be done to correct it | Guidance for MSD configuration on Browser Interface |
| 042339 | Put Inlet/Detector type in the diagnostic Tabs | No Inlet/Detector type displayed in the diagnostic Tabs | Dignostics on Browser Interface |
| 042863 | Browser Interface-saving a method hanging | saving a method hanging on Browser Interface | Method on Browser Interface |
| 043016 | SCD maintenance task improvement- replace inner ceramic in FW 2.5.0.258 | ceramic tube maintenance: the EMF not reset after changing the ceramic tube | Maintenance on Browser Interface |
| 043020 | SCD Off Function says it turns off oxidizer flow but it does not turn off oxidizer flow | SCD Off Function says it turns off oxidizer flow but it does not turn off oxidizer flow | Method on Browser Interface |
| 043032 | XCD Ozone Pneumatic leak test on the Browser Interface requires a browser refresh during the test | XCD Ozone Pneumatic leak test on the Browser Interface requires a browser refresh during the test | Diagnostics on Browser Interface |
| 043046 | Add Trim Column to COC inlet maintenance | No trim Column to COC inlet maintenance | Maintenance on Browser Interface |
| 043054 | 8860 and 8890 do not show the tray / Barcode reader firmware in the Health Report | 8860 and 8890 do not show the tray / Barcode reader | System Health Report on |

| | | firmware in the Health Report | Browser Interface |
|--------|---|---|--|
| 043074 | maintenance task - change column with SCD does not turn off H2 before cooling | maintenance task - change column with SCD does not turn off H2 before cooling | Maintenance on Browser Interface |
| 043075 | 8697: Grey out System Calibration Option if Tray is not Calibrated | System Calibration Option is availble if Tray is not Calibrated | Setting/ Calibration on Browser Interface |
| 043108 | XCD Maintenance Step Not Valid | XCD Maintenance Step Not Valid | Maintenance on Browser Interface |
| 043116 | Whole DA express report untranslated | Whole DA express report untranslated | DA Express on Browser Interface |
| 043151 | Uncheck DHCP should clear IP address fields | Uncheck DHCP doesn't clear IP address fields | Setting on Touchscreen |
| 043158 | Browser Interface-text in buttons are grayed out | Browser Interface-Column "Calibrate", "Remove" text in buttons are grayed out | Method on Browser Interface |
| 043160 | GC auto configuration doesn't handle multiple simultaneous EPC changes | GC auto configuration doesn't handle multiple simultaneous EPC changes | Auto Configuration on Browser Interface |
| 043162 | SCD change inner ceramic maintenance procedure-SCD shutdown | the instrument starts to cool down the SCD zones at the start of the maintenance procedure to shut down the SCD | Maintenance on Browser Interface |
| 043169 | Browser Interface: Missing Inlet Transfer Line Interface Heater Configuration | Browser Interface: Missing Inlet Transfer Line Interface Heater Configuration | Method on Browser Interface |
| 043226 | Browse Interface Errors when uploading method from instrument after instrument config has been changed, leads to never ending progress spinner. | Browse Interface Errors when uploading method from instrument after instrument config has been changed, leads to never ending progress spinner. | Method on Browser Interface |
| 043244 | 8860: Touchscreen Should show MAC Address | No MAC on Touchscreen | Setting on Touchscreen |
| 043267 | 88xx GC Lockup issue when removing and reconnecting 8697 headspace sampler | 88xx GC display freezes when removing and | Configuration on Browser Interface |

| | | reconnecting 8697 headspace sampler | |
|--------|--|---|--|
| 043289 | 8697: Request to update the default parameter settings | The default settings for 8697 is not properly | Method on Browser Interface |
| 043297 | Replace liner maintenance procedure-add wording to end of procedure | NO 'Re-mount the ALS tower if installed' | Maintenance on Browser Interface |
| 043333 | Manual configuration of New Hardware such as an EPC module is cleared if cancel is evoked. | If the Cancel option is selected the GC becomes "non functional" as no parameters are listed and the configuration is unknown. | Manual Manual Configuration on Browser Interface |
| 043338 | Perform Maintenance without selecting anything freezes the GC | Perform Maintenance without selecting anything freezes the GC | Maintenance on Browser Interface |
| 043342 | Maintenance:Instrument- Maintenance mode-with XCD | the user puts the instrument into 'Maintenance Mode' (under Instrument- >Maintenance Mode), the XCD is not shut down properly | Maintenance on Browser Interface |
| 043398 | Error in 8697 Headspace User documentation | vial pressurization instruction for the 8697 headspace | Help on Browser Interface |
| 043418 | XCD Does not auto configure or unconfigure | XCD Does not auto configure or unconfigure | Configuration on Browser Interface |
| 043432 | Improve Gas supply pressure check for magabore column | gas supply pressure check when run with a 530 column says: 'The restriction in the column is too small to perform the test at the desired column flow' | Diagnostics on Browser Interface |
| 043433 | Improve XCD reaction cell calibration | The preparation procedure is not well adressed. | Calibration on Browser Interface |
| 043444 | Support Diagnostic Data Collection for Users | No Diagnostic Data Collection Tab | Diagnostics on Browser Interface |
| 043445 | Values from the Leak and restriction Test different in the System Health Report. | Values from the Leak and restriction Test different in the System Health Report. | Diagnostics on Browser Interface |

| 043453 | SSL Inlet Pressure Decay test is failed with 8697 connected | SSL Inlet Pressure Decay test is failed with 8697 connected | Diagnostics on Browser Interface |
|--------|--|--|---|
| 043459 | 8697: No Sample Overlap for vial equilibration in User Vial Leak test | 8697: No Sample Overlap for vial equilibration in User Vial Leak test | Diagnostics on Browser Interface |
| 043480 | add split vent part number in maintenance for split vent | NO split vent part number in maintenance for split vent | Maintenance on Browser Interface |
| 043481 | update gas clean filter instructions in instrument maintenance | Instruction use the "inlet pressure" instead of Supply Pressure | Maintenance on Browser Interface |
| 043482 | Error 1000600a occurred after the Leak and Restriction test with 8860 GC | Error 1000600a occurred after the Leak and Restriction test with 8860 GC | Diagnostics on Browser Interface |
| 043496 | Highlight blank evaluation criteria that failed | No Highlight the failed values | blank evaluation report on Browser Interface |
| 043505 | Detector evaluation help does not include instructions for headspace | Detector evaluation help does not include instructions for headspace | Help on Browser Interface |
| 043506 | Browser Interface methods and sequences are incorrectly alphabetized in drop down lists | Browser Interface methods and sequences are incorrectly alphabetized in drop down lists | Method on Browser Interface |
| 043524 | NPD maintenance is not correct- wrong screw driver mentioned in FW 2.5.0.258 | T-10 screw driver is mentioned | Maintenance on Browser Interface |
| 043526 | Support HEADSPACE detector evaluation sample type | NO HEADSPACE detector evaluation sample type | Method on Browser Interface |
| 043550 | 8697 Manual Operations- Can an Exit be added as a choice to the drop down? | NO Exit under 8697 Manual Operations | Diagnostics on Browser Interface |
| 043553 | Expose Method Pressure Check as a Diagnostic | NO Method Pressure Check under Diagnostics | Diagnostics on Browser Interface |
| 043565 | EMF reset on Browser Interface for SCD outer ceramic reset's Pump time in FW 2.5.0.258 | EMF reset on Browser Interface for SCD outer ceramic reset's Pump time | Maintenance on Browser Interface |

| 043582 | Closing diagnostic tests leaves them running and the GC status in Diagnostic Mode. | Closing diagnostic tests leaves them running and the GC status in Diagnostic Mode. | Diagnostics on Browser Interface |
|--------|---|--|--|
| 043597 | XCD Reactor Pressure Calibration Updates | No "Reset" button for the reactor pressure calibration | Calibration on Browser Interface |
| 043607 | 8697 Preform Maintenance - Install Transfer Line to GC - User Input NO- EMF is not updated. | 8697 Preform Maintenance - Install Transfer Line to GC - User Input NO- EMF is not updated. | Maintenance on Browser Interface |
| 043615 | [8860 DA]: "preview report" icon and "analyze data" icon are blank. | [8860 DA]: "preview report" icon and "analyze data" icon are blank. | DA Express on Browser Interface |
| 043621 | After completing the Ozone Pneumatic Leak Check should the zones be turned back on | After completing the Ozone Pneumatic Leak Check, the XCD parameters is not reset | Diagnostics on Browser Interface |
| 043622 | 8697 - Both the Sample Tray and X-Axis Cleaning turn off the inlet when it is not necessary. | 8697 - Both the Sample Tray and X-Axis Cleaning turn off the inlet when it is not necessary. | Maintenance on Browser Interface |
| 043644 | 8697 Perform Maintenance - Six Port Valve and Rotor -Per Cent Complete goes to 99% too quickly | 8697 Perform Maintenance - Six Port Valve and Rotor -Per Cent Complete goes to 99% too quickly | Maintenance on Browser Interface |
| 043662 | Gas Bag Selector: Stream can't switch correctly in sequence | Gas Bag Selector: Stream can't switch correctly in sequence | Selector on Browser Interface |
| 043663 | Gas Bag Selector: Maintenance run but first stream can't switch | Gas Bag Selector: Maintenance run but first stream can't switch | Selector on Browser Interface |
| 043703 | Incorrect Units for Vial Fill Flow Rate | Fill Flow when in Flow To Pressure mode has a unit of "mL" | Method on Browser Interface |
| 043776 | Oven On Safety Delay Not Implemented | Oven On Safety Delay Not Implemented | Oven Behavior of flapper |
| 043894 | 8860 Touchscreen: status not consistent between Touchscreen and Browser Interface when abort headspace run | 8860 Touchscreen: status not consistent between Touchscreen and Browser Interface when abort headspace run | Status on Touchscreen and Browser Interface |
| 043938 | Events get lost when changing the injection source | specify injection source when starting the run and | Method on Browser |
| | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | |

| then we were losing the | Interface and |
|-------------------------|---------------|
| valve events. | GC driver |

2.5.1.9 Firmware

Released 12th October 2022

http://download.chem.agilent.com/firmware/8860_FW_2.5.1.9.tgz.gpg

To download this version, use GC Firmware Update Utility 2.6.3.0 or greater.

Updating to this firmware does not require instrument revalidation.

Service Note Number: D0026278

Table 11 Resolved Issues (Agilent 8860 GC System 2.5.1.9)

| Issue ID | Summary | Current Behavior | Impact Area |
|----------|--|---|-------------|
| 043399 | ALS starts to prepare for run when oven is in standby mode | ALS starts when oven is still in standby mode | ALS |

2.5.0.258 Firmware

Released 13th May 2022

http://download.chem.agilent.com/firmware/8860_FW_2.5.0.258.tgz.gpg

To download this version, use GC Firmware Update Utility 2.6.3.0 or greater.

Updating to this firmware does not require instrument revalidation.

Service Note Number: D0022170

Table 12 Resolved Issues (Agilent 8860 GC System 2.5.0.258)

| Issue ID | Summary | Current Behavior | Impact Area |
|----------|---|--|--|
| 038450 | 8860 Browser Interface offers 8 signals, should be 4 to match GC driver | 8 signals display on Method Interface | Method page on Browser Interface |
| 038733 | The pressure/ flow value of Aux EPC should be displayed in the flow path. | The pressure/ flow value of Aux EPC are not displayed in the flow path | Flow Path on Browser Interface |
| 042054 | Browser EMF Trend Plot shows only the most recent Reset Event; refresh required | Only the last Reset Event is displayed | Maintenance on Browser interface |
| 042242 | 860 Perform Maintenance for replacing Inlet Liner with a Headspace installed includes too | The Maintenance procedure for replacing liner includes | Inlet Maintenance on |

| | much information on the Headspace | many Headspace maintenance steps | Browser Interface |
|--------|---|--|---|
| 042859 | 8860 Print Method does not print | Open Method and select a method. Select Print Method. The Print Method Screen does not appear. | Method Print on Browser Interface |
| 042142 | 8697: Vial is not returned to tray from oven after aborting User Vial Test | Vial is left in Oven after aborting User Vial Test | Diagnostics on Browser Interface |
| 042143 | 8697: Leak Test Vial is not returned to Leak Test Vial position after aborting Restriction and Pressure Decay Test | Vial is left in Oven after aborting Restriction and Pressure Decay Test | Diagnostics on Browser Interface |
| 042270 | Gateway address required to change IP address after initial system setup wizard | There is no invalid network configuration information is displayed if the gateway IP is not entered | IP setting on Touchscreen |
| 042393 | Unable to turn off PCM backpressure during the run | Unable to turn off PCM backpressure during the run | PCM backpressure control Time Event |
| 042424 | NPD maintenance does not match recommended maintenance | NPD maintenance procedure does not match as recommended | NPD maintenance on Browser interface |
| 042507 | Keyboard lock should disable Maintenance Routines and Diagnostic Tests | Keyboard lock from data system doesn't disable Maintenance and Diagnostics | Maintenance and Diagnostics on Browser Interface |
| 041574 | 8697: Use "Restriction and Pressure Decay Test" instead of "Leak and Restriction Test" in 8697 | "Leak and Restriction Test" is used now | Diagnostics on Browser Interface |
| 042139 | 8697: remove 8697 Headspace Carrier Setpoint option from Plot Interface | Carrier Setpoint is existed in Plot Interface | Plot on Browser Interface |
| 042144 | 8697: Loop types are wrong under Maintenance section (replace sample loop) | Loop types are wrong under Maintenance section | Maintenance on Browser Interface |
| 042787 | Excessively high flow coming out of the FID during inlet maintenance when using H2 as the carrier gas. | If the flame is still lit this could result in a H2 flame being emitted out of the FID. | Maintenance on Browser Interface |

2.4.1.10 Firmware

Released January 2022

https://download.chem.agilent.com/firmware/8860_FW_2.4.1.10.tgz.gpg

To update this version using GC Firmware Update Tool 2.5.5.0 or greater.

With 8860 firmware 2.4.1.10 updated, GC Drivers version 3.6.181 or later should be used.

Updating to this firmware does not require instrument revalidation.

Service Note Number 8860 Series GC-032

Changes/Fixes made since the last version. (2.4.0.307)

Issue Id Title

used.

042340

| loode la | Title |
|----------|--|
| 041950 | Adding firmware support for GigaDevice QSPI |
| 042318 | GCMS: Allow Missing configuration condition to be dismissed if |
| | MS is not available over LVDS on GC start up |
| 042319 | GCMS LDVS: Provide a mechanism for the user to manually re- |
| | trigger connection attempt to establish LVDS communication. |
| 042320 | GCMS: Enhancement request to periodically poll MS to |
| | establish LVDS communication |
| 042321 | GCMS: When the IP address of MS is changed over LVDS from |
| | 8860 warn the user to not power cycle until the network config |
| | change is complete. |
| 042301 | Column Outlet pressure value ignored, and ambient pressure |
| | |

2.4.0.307 firmware incompatible with 3.3 SR1 Driver

| 042382 | Add classifier database content to the Trend Analysis Database |
|--------|--|
| | content when gather logs. |
| NA | Improve Gasifier/ Sample Selector II performance. |
| 042309 | Localisation Updates |
| 042371 | Firmware update fails if environment needs to be updated |
| 042396 | Inlet pressure is large negative value in 8860 Inlet OQPV |
| | Pressure Decay test |

2.4.0. 307 8860 GC firmware

Released November 2021

https://download.chem.agilent.com/firmware/8860_FW_2.4.0.307.tgz.gpg

To update this version using GC Firmware Update Tool 2.5.5.0 or greater.

With 8860 firmware 2.4.0.307 updated, GC Drivers version 3.6.181 or later should be used.

Updating to this firmware does not require instrument revalidation.

Service Note Number 8860 Series GC-030

Enhancements

 Remove support for use of Microsoft Internet Explorer (IE) client browser to access GC Browser Interface

| Changes/Fixes made since the last version. (2.3.3.6) Issue Id Title | | |
|---|--|--|
| 037508 | 8697: Configure XLSI automatically | |
| 037578 | 8860 Browser Interface: Request to add filter function in Sequence | |
| | selection drop list | |
| 038658 | Browser Interface: Post Run pressure setpoint not available for | |
| | Packed Column | |
| 040983 | Remote software needs to lock out the user from remotely | |
| | restarting an "offending zone" after a H2 shutdown | |
| 041020 | Browser Run Log does not include entry about Blank Evaluation | |
| | failure | |
| 041041 | Phone Interface: Sequence, Method, Sample Name not displayed | |
| 041061 | Phone Interface: No signal displayed | |
| 041148 | 8697: The diagnostic test result of the six port rotor orientation | |
| | test cannot be recorded correctly in the system health report. | |
| 041151 | 8697: Aux Pressure zero calibration is not performed correct | |
| 041158 | "Gather Logs" functionality fails if there is no run data but the user | |
| | selects to gather them | |
| 041159 | Browser Interface: Gather Logs says "Method Logs" it should say | |
| | "Active Method" | |
| 041192 | 8697: Add HS Calibration and HS Tray Statistics to Log Files | |
| | Package | |

041194 8697: Run configuration wizard when headspace hardware

041239 8860 DA Express: System Reboot error is triggered when load

changes

Demo data for analysis

| 041299 | 8890/60 reports Line Voltage High |
|--------|--|
| 041349 | 8860 EPR: The flow of the PCI with EPR cannot be changed. |
| 041350 | 8860: PCI Septum Purge flow is display in System Health Report |
| 041356 | No Vial status display if first run injector source is not Headspace |
| 041406 | Blank Evaluation Report should contain columns for min and max |
| | limits and time window |
| 041418 | 8860: "auto flow zero" cannot be disabled in browser interface. |
| 041423 | 8697: The Barcode Reader model number of 8697 HS should be |
| | G4527A. |
| 041424 | 8697: The description of Headspace Barcode Reader in System |
| | Health Report is blank. |
| 041494 | PPIP Pressure Setpoint should be removed on touchscreen |
| 041496 | Enable the function of turning off FID High Voltage for DET |
| | maintenance |
| 041615 | 8697: Touchscreen and Browser Interface Show Time Elapsed |
| | instead of Time Remaining for Certain Headspace Vial States |
| 041779 | 8860: Untranslation happen when tray obstruction issue |
| 041781 | Total Syringe volume always display [Object Object] |
| 041806 | Selector: "Stop Run" doesn't work on 8860 Touchscreen |
| 041809 | Maintenance menu language change to Portugal |
| 041826 | 8697: Simplify maintenance procedure for 'replace sample loop' |
| 041868 | "Get Method Logs" should be changed to "Get Active Method" in |
| | Browser Interface |
| 041869 | "Log File Name" should be changed to "Comment" in Browser |
| | Interface |

| 041870 | "Load" should be changed to "Copy" or "Download" in Browser |
|--------|---|
| | Interface under Gather Logs in diagnostics. |
| 041883 | 8860Touchscreen: Time remaining always display as 0.00 min in |
| | vial status when use 8697 Headspace |
| 041884 | Untraslation display happen on plot tab on Browser Interface |
| 041902 | 7693 ALS: ALS light change back to ON status after power cycling. |
| 041917 | Localization - "Resume" button under Sequence in BUI not |
| | localized into Russian language |
| 041930 | 8697: Headspace configuration item(s) reset after GC firmware |
| | update |
| 041939 | 8890 and 8860, the FID hydrogen turns on immediately at the end |
| | of the self test |
| 041941 | Maintenance procedure of cleaning the 8697 oven does not |
| | indicate that the instrument should be powered off and unplugged |
| 041983 | 8355 Does not Turn off Ozone Power when Insufficient Flow |
| | Detected |
| 041984 | For Markes Control, doesn't keep the High Flow value after any |
| | configuration |
| 042006 | 8860-8697: No pop-up on the touchscreen offer Resume or Abort |
| | if set Vial Missing and Wrong Vial Size Sequence Options to |
| | PAUSE |
| 042008 | COC pressure decay test failed caused by initial high pressure |
| 042012 | Browser Interface: Skipped Untranslate happen on Run status |
| 042029 | 8697: sequence cannot be resumed successfully when setting vial |
| | missing sequence option to Pause. |
| 042171 | 8697: Inlet Leak and Restriction Test is failed with 8697 connected |

042211 PP Inlet Ramp Flow setting doesn't work during sample run
042215 Leak and Restriction test fails with standard SS PID values and 8697 connected.

2.3.3.6 8860 GC firmware

Released July 2021

https://download.chem.agilent.com/firmware/8860_FW_2.3.3.6.tgz.gpg

To update this version using GC Firmware Update Tool 2.4.3.0 or greater.

With 8860 firmware 2.3.3.6 updated, GC Drivers version 3.5.132 or later should be used.

Updating to this firmware does not require instrument revalidation.

Service Note Number 8860 Series GC-028

Changes/Fixes made since the last version. (2.3.2.11)

Issue Id Title

- 041619 Multiple TCD filament broken cases are reported
- O41452 Selector: when selector is loading sample, after pressing Stop button on the 8890 Touchscreen, the warning message under the selector maintenance should be modified.
- 041693 UTC +9:30 Time zone unavailable for selection in GC 3.5 [110]
- 041836 System Setup froze on Headspace Configure Interface

2.3.2.11 8860 GC firmware

Released July 2021

https://download.chem.agilent.com/firmware/8860_FW_2.3.2.11.tgz.gpg

To update this version using GC Firmware Update Tool 2.4.3.0 or greater.

With 8860 firmware 2.3.2.11 updated, GC Drivers version 3.5.132 or later should be used.

Updating to this firmware does not require instrument revalidation.

Service Note Number 8860 Series GC-027

Changes/Fixes made since the last version. (2.3.1.6)

Issue Id Title

| issue iu | riue |
|----------|---|
| 041118 | 8697: Failed firmware update doesn't clearly indicate that a new |
| | firmware update is required |
| 041487 | Data system connection failed caused by Invalid Leap Year Handling |
| | (March 1 2000) |
| 041430 | 8697: Infinite "Running" of a HSS 8697 Sequence after appending a |
| | run, while the last run of a sequence was running |
| 041521 | 8860 septum purge shutdown error is reported |
| 041153 | Sequence Indicates wrong sample location with Headspace Sampler |
| | configured |
| 041425 | 8697: after configuring the HS to an inlet, OQPV Load Qualification |
| | Method still cannot be applied |
| 041296 | 8697: Headspace Maintenance should be disabled when the sequence |
| | is running. |
| 041630 | Column connection error caused 'high CPU usage' |
| 041597 | System fault -Error code 1000600a and System fault 0x00100000 with |
| | manual injection |
| 041601 | Manual Injection data remains on the instrument |
| | |

041362 8890/8860 "Electronics Fault" Error code 1000600b and System Fault

Error code 1000600a with 7697A configured

041376 XCD with Quick Start Wizard "Heater and Flow stabilization" timeout too short

037865 DA Express-loading calibration standard data issue

2.3.1.6 8860 GC firmware

Released April 2021

https://download.chem.agilent.com/firmware/8860_FW_2.3.1.6.tgz.gpg

To update this version using GC Firmware Update Tool 2.4.3.0 or greater.

With 8860 firmware 2.3.1.6 updated, GC Drivers version 3.5.110 or later should be used.

Updating to this firmware does not require instrument revalidation.

Service Note Number 8860 Series GC-026

Changes/Fixes made since the last version. (2.3.0.203)

Issue Id Title

041086 multiple feedback received for Electronics Fault - Error code 1000600b

041233 APG remote on 8890 does not send stop signal when run is done

2.3.0.203 8860 GC firmware

Released March 2021

https://download.chem.agilent.com/firmware/8860_FW_2.3.0.203.tgz.gpg

To update this version using GC Firmware Update Tool 2.4.3.0 or greater.

With 8860 firmware 2.3.0.203 updated, GC Drivers version 3.5.110 or later should be used.

Updating to this firmware does not require instrument revalidation.

Service Note Number 8860 Series GC-025

Enhancements

- Add support for the 8697 Headspace Sampler
- GC Support 32 oven ramps and 33 plateaus. Negative ramps will continue to be allowed.

Changes/Fixes made since the last version. (2.2.2.4)

Issue Id Title

| 034007 | 8860 Browser Interface: [ALS] Total volume should be read-only. |
|--------|---|
| 036390 | 8860 DA Express: Can't get one channel signal report |
| 037354 | Peak Markers and Key in DA Express Signals Comparison don't match |
| 038465 | Perform conditioning method before wake not working as expected |
| 038485 | [DA Express] Suggest to add the "Negative Peak" event, specifically for |
| | TCD detector |
| 038964 | Browser Interface: The actual value of column flow is displayed |
| | incorrectly. |
| 039150 | "GC Gasifier removed" is not displayed in maintenance log after gasifier |
| | is removed from GC. |
| 039761 | 8860 EPR : There are no FID diagnostic tests on the 8860 with FID EPR. |
| 040180 | Browser Interface: sample overlap steps performed when next sequence |
| | line is non-overlap |
| 040277 | Touchscreen : Aux EPC Calibration Error message gives incorrect reason |
| 040336 | The "PrepRun" and "Start" button should be disabled in touchscreen when |
| | 8890/60 is in Run Status |

| 040339 | 8860: The setpoint for column flow cannot be downloaded from Data |
|--------|--|
| | system to touchscreen correctly under Constant Pressure mode. |
| 040524 | Browser Interface: TCD Configuration Gas Type Wrong |
| 040525 | Touchscreen and Browser Interface: TCD Reference Gas Type not set to |
| | Makeup Gas Type |
| 040546 | Browser Interface: xCD calibration auto zero |
| 040587 | Gather log failed when all log options are selected |
| 040705 | 8860: LTM-II should not be displayed under column configuration on |
| | Browse Interface |
| 040709 | The purge time should not be limited to the oven time in Browser |
| | Interface |
| 040896 | Browser Interface: Aux EPC Calibration Error message gives incorrect |
| | reason |
| 040967 | Capture complete logs for "Gather Logs" file |
| 040985 | 8860: system fault cannot be resolved by rebooting or updating firmware |
| 041051 | All module missing after resetting to factory |
| 041121 | 8860 system fault and stay in diagnostic mode |

2.2.2.4 8860 GC firmware

Released January 2021

http://download.chem.agilent.com/firmware/8860_FW_2.2.2.4.tgz.gpg

To update this version using GC Firmware Update Tool 2.3.3.0 or greater.

With 8860 firmware 2.2.2.4 updated, GC Drivers version 3.4.191 or later should be used.

Updating to this firmware does not require instrument revalidation.

Service Note Number 8860 Series GC 024

Changes/Fixes made since the last version. (2.2.1.4)

Issue Id Title

040724 When Column Comp is selected method download causes a disconnect

038332 88xx loses connection on downloading detector compensated signal or running sample with this signal

2.2.1.4 8860 Firmware

Released December 2020

http://download.chem.agilent.com/firmware/8860_FW_2.2.1.4.tgz.gpg

No Change/Fixes in this Version

No Service Note is released

2.2.0.287 88860 Firmware

Released in November 2020

http://download.chem.agilent.com/firmware/8860_FW_2.2.0.287.tgz.gpg To update this version using GC Firmware Update Tool 2.3.3.0 or greater.

With 8860 firmware 2.2.0.287 updated, GC Drivers version 3.4.191 or later should be used.

Updating to this firmware does not require instrument revalidation.

Service Note Number: 8860 Series GC-022

Enhancements

- Add support for Sample Selector II
- Add support for Method Printout from Browser Interface

• GC Browser Phone Interface

A browser interface optimized for mobile viewing on either iOS or Android phones now provides status information including remaining run time and a static plot of the last 20 minutes of detector data.

New Updated GC Specifications

The following GC specifications for Intuvo 9000, 8890 and 8860 have been updated to help make you more competitive in bids/tenders. Note: MMI is for Intuvo 9000 and 8890 only.

| | OLD Agilent GC Spec | NEW Agilent GC Spec | Shimadzu 2030 | Thermo 1310 |
|----------------------------------|------------------------|------------------------|------------------|----------------|
| Max Inlet Split Ratio (SSL, MMI) | 7,500:1 | 12,500:1 | 9,999.9:1 | 12,500:1 |
| Max ECD Data Rate | 50 Hz | 500 Hz | 500 Hz | 300 Hz |
| Max FPD+ Data Rate | 200 Hz | 500 Hz | 500 Hz | 300 Hz |

Added Security to Set Browser Interface PIN on Touchscreen

A PIN must be used at the Browser to enable it to connect to a GC. The PIN is set at the GC touchscreen.

- The previous GC firmware allowed up to 4 numerical digits to be entered for a PIN
- The new firmware (rev. 2.2) allows up to 4-8 numerical digits to be entered for a PIN if additional security is desired

Changes/Fixes made since the last version. (2.1.0.626)

Issue Id Title

035046 User validation of Static IP information

| 035066 | TCD detector can't be recalibrated after the cell or interface board in |
|--------|---|
| | 8860 |
| 035646 | Nexus analog out signal goes high when TCD filament is turned off |
| 036034 | Browser Interface missing User Configurable parameters for both Inlets |
| | and Thermal Zones |
| 036468 | Once re-scope the X and Y axis of real-time plot, only the plot from that |
| | time can be checked, missing previous chromatograph. |
| 036747 | [Truncation]The Home of Edge Browser Interface is truncation and |
| | can't display completely |
| 036844 | 8860 Browse Interface: signal event table is always blank, even after |
| | downloading the method from Data System |
| 037001 | Channel Partner PCM inlet rate is possibly incorrect |
| 037002 | PCM inlet help is not available or incorrect across interfaces |
| 037010 | Nomenclature Differences between GC driver and LUI - ALS injection |
| | modes |
| 037235 | Suggest making it possible to add or insert sequence line during |
| | sequence running |
| 037719 | User Configurable heater parameters can't be saved in 8860 GC |
| 038473 | in Browser Interface, the column outlet pressure should be editable |
| | when column outlet is configured as others |
| 038641 | Total syringe volume used' is not displayed in Browser Interface |
| 038738 | Data not integrating in DA Express |
| 038753 | pressure setpoint, flow setpoint and pressure adc setpoint should be |
| | deleted in EPR FID diagnostic signal list |
| 038862 | in Browser Interface, Tray information is not displayed |
| 038897 | DA Express: Y Axis Label |

| 038929 | Make the blank evaluation tab on the on-board methods read "Blank |
|--------|--|
| | Evaluation" |
| 038960 | Configuration of Composite column is not supported from Browser |
| | Interface |
| 038995 | Remaining Run Time is blank under Run Status when running a |
| | sequence via Browser Interface |
| 039154 | After Gasifier is removed from GC, related help file cannot be searched |
| | out. |
| 039158 | 8860 Browser Interface Help _DA Express issue untranslation |
| | screenshots and truncation issue screenshot |
| 039231 | 8860 EPR Touchscreen: Front inlet pressure is unchecked after setting |
| | the front inlet pressure to 30 psi and downloading method to GC in |
| | Browser Interface |
| 039243 | Excessive Safety Flow Shut off with all gasses needs to apply just to H2 |
| 039309 | EMF thresholds for back injector are not being read or set from device |
| | when only a back injector is installed (88XX) |
| 039377 | 8860_Browser Interface_FID replace Jet screenshot need be 8860 |
| | instrument instead of 8890 |
| 039386 | Method save fails to display tab with errors when changing column |
| | flow |
| 039463 | ALS parameter can't send to 8890/60 if "Sample Depth" set to "-2". |
| 039489 | method can't be downloaded to 8860 when syringe sample depth with |
| | minus value |
| 039533 | there are blank lines under sequence selection list |
| 039536 | Change MS network setting behavior from the LUI |
| 039543 | 8890 2.1 firmware gives Error on Quick start for SCD |

| 039749 | Modify GC Access PIN to allow for 4 to 8 digits |
|--------|--|
| 039825 | In Browser Interface, sequence line numbers greater than 99 are |
| | truncated |
| 039915 | 8860: The septum purge flow of the COC inlet cannot be reset to zero |
| | by calibration |
| 040292 | 8890 "Host System Not Ready" should remain as long as the data |
| | system (MH) does not have a sequence running. |

2.1.0.626 8860 GC Firmware

Released in May 2020

Service Note Number: 8860 Series GC-016

Enhancements

- Optimized "PrepRun", "Start", "Stop" behavior for manual injection on touchscreen
- Improved Browser Interface performance, introduced new features
- Added support for Gasifier II
- Update Help and Localization (Chinese, Russian, Japanese, Brazilian Portuguese)

Changes/Fixes made since the last version. (2.0.2.8)

Issue ID Title

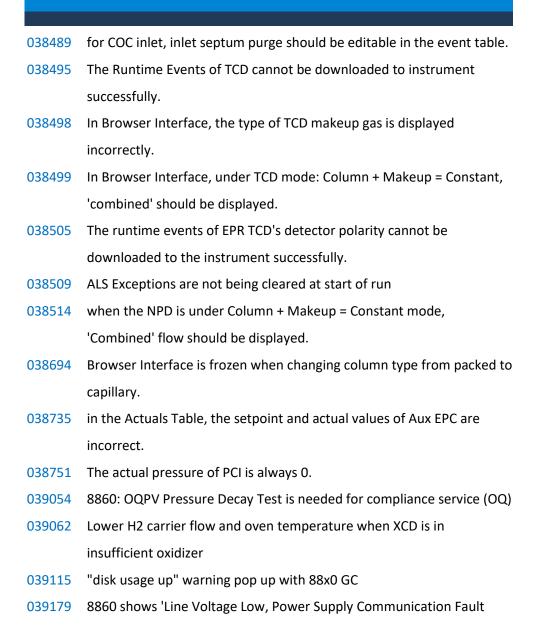
| 024416 | Adding user defined EMF fields seems not to be working |
|--------|---|
| 032319 | 8890/60 should hold Not Ready state whenever Blank Run Analysis |
| | sequence is aborted |

| 033096 | Request to Check the Left Memory Size in Touchscreen or Browser |
|--------|--|
| | Interface of 8860 |
| 034588 | 8860 Browser Interface: it's better if save method can be multiple - |
| | selection. |
| 035195 | Browser Interface: Advanced Tests in Diagnostics |
| 035203 | Diagnostics: Inlet Tests Fail with Headspace Connected |
| 035605 | 5977B will not be configured properly if the 8890/60 is turned on the |
| | first time prior to the MS |
| 035959 | [DA Express] Print calibration curve in report |
| 035987 | Touchscreen: Flow path on Touchscreen is different with that on |
| | Browser Interface and Openlab when one inlet is connected with two |
| | columns |
| 036052 | [DA Express] A new icon is required for 'Compare' |
| 036053 | [DA Express] A new icon is required for 'Curve color config' |
| 036393 | 8860 EPR: Is the He conservation module supported in 8860 SSL with |
| | EPR? |
| 036398 | Update to 8890/60 Maintenance guide (all languages) needed - new |
| | CSD part numbers |
| 036426 | 8860 Browser Interface, the instrument screenshot shows 8890, it is |
| | better update to 8860 |
| 036577 | [DA Express] Redesign the default report template to stay consistent |
| | with Browser Interface theme |
| 036883 | [DA Express] Improve the manual baseline operation |
| 036983 | Browser Interface: It is hard to visually distinguish between enabled or |
| | disabled checkboxes |
| 036998 | Septum purge flow should not exist for PCM inlet |

| 037122 | [DA Express] Layout design for multi-channel tabs need a better design |
|--------|--|
| 037123 | Browser Interface-injection source with GSV not correct |
| 037196 | After DComm is recovered from lost communication with the MS, the |
| | GC should restore the previously loaded method |
| 037220 | 8860 Browser Interface: G3520 transfer line should be replaced with |
| | HS transfer line. |
| 037301 | [Sequence] Suggest to hide the "Level" and "Amount" column in |
| | sequence table when DAX is activated |
| 037320 | [DA Express] Reintegrate is very slow when there are more than 40 |
| | peaks in multip channels |
| 037386 | 8890SCD0100 for 8860 SCD: 8860 Touchscreen signal plotting's label |
| | not consistent with the selection |
| 037389 | [DA Express] "Do not use Multiplier & Dilution Factor with ISTDs" |
| | should be removed from report |
| 037391 | [DA Express] Cannot delete level from the calibration table |
| 037414 | [DA Express] There is NO drop-down menu when "Save as" master |
| | method, suggest to add this function as "LOAD" data do |
| 037417 | DA Express-No unit for X-axis display in Chromatography |
| 037517 | 8860 Browser Interface: no unit for SSL inlet septum purge flow. |
| 037518 | 8860 Browser Interface: pre-run flow test should be disabled in 8860. |
| 037538 | [DA Express] If user leave "Sample Amount" as blank during sequence |
| | edition, the value will keep at 1 in Run Info, and especially in report, |
| | which will lead inconsistance |
| 037554 | PID parameters for Markes TD is needed in 8860 GC |
| 037567 | [DA Express] Suggest to make "the grid" of the chromatography as an |
| | option, user can select to show the grid or not |

| 037576 | Russian help does not include eFam links |
|--------|---|
| 037602 | Running sequence from the BROWSER with a Post Run time stops after |
| | first run |
| 037681 | Headspace and Valve injections do not increment inlet EMF counters. |
| 037685 | Total flow displayed during leak and restriction test is abnormal while |
| | the real situation is correct |
| 037692 | The EPR inlet is missing some images during the leak $\&$ restriction test. |
| 037755 | HeConsControlled is still checked on UI even when module is removed |
| 037767 | 8860: column cannot be removed in the Browser Interface. |
| 037803 | G3449A Aux Heater Type is not Accurate in 8860 Brower Interface |
| | Configuration Interface |
| 037845 | 8860 Browser Interface: there are two inlet carrier gas type displayed |
| | in Column tab |
| 037890 | 8860: In Browser Interface, Auto Schedule Calibration On cannot be |
| | saved. |
| 037906 | 8860: The detector position cannot selected under TCD polarity events |
| | in Browser Interface. |
| 037907 | 8860: TCD polarity switching in Event Table is not functional. |
| 037909 | Low disk space correction is confusing |
| 037917 | 8860: The diagnostic signal of Hydrogen sensor is always a straight line |
| | with a value of 0. |
| 037950 | 8860:Hydrogen Sensor Last calibrated time should be displayed Under |
| | Instrument Actuals. |
| 038024 | [DA Express] It is incorrect to only set "Fixed Y-axis" in DA Express for |
| | Negative Peaks |

| 038075 | The length of capillary column into FPD is inconsistent between |
|--------|---|
| | training material and that in Browser interfaceMaintenance/Column |
| 038113 | The function of "Autozero" of signal on Browser Interface does not |
| | work |
| 038153 | TCD Filament can come on at 135 degrees but the help states 130 |
| | degrees. |
| 038155 | 8860: the EMF for septum injection counter is always Zero for COC |
| | inlet with Manual/ External injection. |
| 038169 | 8860 packed column actual flow is not correct in Browser Interface |
| 038256 | 8860 Valve Box temperature setpoint maximum is 250 degree now |
| 038301 | Warning for pressure and restriction tests when |
| | headspace/markes/external sampler is connected |
| 038313 | Update Health Report to include Column Dimensions |
| 038320 | Logging for Blank/Detector/Peak Evaluation Results |
| 038336 | Retention Time Ratio in the Detector Evaluation of the FPD+ needs to |
| | be changed. |
| 038430 | 88xx H2 Sensor test Results in System Health Report should include |
| | Concentration % in Details column |
| 038431 | Browser System Log has entry for Hydrogen shutdown during H2 |
| | Sensor Calib Check, but no entry for the clearing of the shutdown |
| 038433 | Browser Instrument Actuals Table always shows H2 Sensor |
| | Concentration Actual as 0; no setpoint, no units, no percent accuracy |
| 038444 | 8860 PP inlet: Pressure can't maintain during Verifying Basic Control |
| | and Test is Failed in leak and Restriction Test |
| 038453 | GC driver: Instrument Status always seems to show Hydrogen Sensor |
| | Concentration as 0.000%, though Calib Check shows 1.916% |



2.0.2.8 8860 GC Firmware

Released in January 2020

Service Note Number: 8860 Series GC-014

Changes/Fixes made since the last version. (2.0.0.391)

Issue ID Title 037691 Leak and restriction test and pressure decay test issue with FW 2.0.0.391 in 8860 GC 037804 Intermittent ALS remain in busy state and sequence aborted with GCMS system 037824 Removing MSD Transfer line should fix up column configuration 037853 Data system displays the ALS fail state incorrectly 037862 Instrument does not wait for external device not ready 037892 7693 stops communicating with the ALS controller 037898 system reported error 1000600a, system rebooted several times, and the error can't be cleared 037926 XCD H2 sensor calibration failed 037936 8860 PP inlet: Pressure raise to 11psi and continue until fail in leak and **Restriction Test** 037997 8860: The positive and negative values of TCD signal cannot be switched via Event table in data system. 038025 GC not waiting for readiness prior to injection 038027 Browser Interface does not wait for readiness to begin sample prep 038095 Variable function of plunger speed cannot be set and jump back to fast/slow automatically. (solved with GC driver 3.1.205, issue only existed with back injector)

2.0.0.391 8860 GC Firmware

Released October 2019.

Enhancements

Issue ID Title

- added support for the Integrated SCD
- added support for Hydrogen Sensor Module
- added support for Clock table programming
- added support for Sleep/Wake

Changes/Fixes made since the last version. (1.2.0.13)

[DAExpress] Dual channel signal curve colors are too similar to distinguish Browser Interface Sequence: Could not know the current injection when sequence is running Detector Evaluation may require separate test limits for EPR pressure control 88x0 EMF Warning and Service Due thresholds for Column Length work incorrectly

8860 Browser Interface: the first line rate of COC inlet ramp table should be gray.
88x0 Touchscreen includes too many gas types for Aux EPC Configuration
8860 Browser Interface: slow fan is not supported in 8860.
8860 Browser Interface: Maximum oven temp range is 70 - 450 if override checked.
8860 Browser Interface: Total run time should be <=999.99min.

| 033018 | 8860 Browser Interface: the Oven first line rate should be gray and rate |
|--------|--|
| | 0 should disable that ramp. |
| 033107 | Too Many Digits displayed in Actual Value of Detector Signal on Status |
| | of Browser Interface of 8860 |
| 033181 | 8860 Browser Interface: Data Process Method should be displayed in |
| | DA Express |
| 033185 | 8860 Browser Interface: Demo data is required for function review and |
| | customer site familiarization |
| 033350 | Active method setpoints applied before Touchscreen finishes booting |
| 033380 | 8860 Browser Interface: out of range value should highlight as invalid |
| | in oven table. |
| 033383 | 8860 Browser Interface: max oven temp is not highlighted after |
| | unchecking override column max |
| 033488 | 8860 Browser Interface: Event Type list should be consistent with GC |
| | configuration. |
| 033497 | 8860 Browser Interface: diagnostic signal list in online plot should be |
| | modified. |
| 033504 | 8860 Browser Interface: for TCD with EPR, it should be marked with |
| | manual. |
| 033518 | 8860 Browser Interface: [PCI] instrument actuals table should be |
| | modified. |
| 033533 | 8860 Browser Interface: in Valve configuration, remote start is only |
| | supported in position 7 & 8. |
| 033540 | 8860 Browser Interface: TCD makeup gas type should be displayed in |
| | Browser Interface. |
| 033562 | 8860 Browser Interface: no valve name in Valve configuration table. |

| 034016 | 8860 Browser Interface: [Maintenance] ECD insert liner injections is |
|--------|--|
| | always 0, and the service warning and service due is not function. |
| 034061 | System log has empty page in Portuguese version |
| 034077 | 8860 Browser Interface: [Valve] injection source should be no valve |
| | options unless a GSV is configured. |
| 034086 | 8860 Browser Interface: [Aux PCM] pressure rate, hold time range, run |
| | time limit are not correct. |
| 034090 | 8860 Browser Interface: [ALS] under Multiple injections mode, total |
| | volume= injection volume* multiple injections should be displayed. |
| 034173 | 8860 Touch Screen: no 'changed hardware' diagnostic condition pops |
| | up. |
| 034231 | 8860 Browser Interface: [Readiness] Aux PCM readiness cannot be |
| | downloaded. |
| 034282 | 8860 Browser Interface: column compensation is unavailable in |
| | Browser Interface. |
| 034498 | 8860 Browser Interface: [online plot] TCD real-time plot units is not |
| | correct. |
| 034581 | 8860 Browser Interface: no ALS model number and firmware version |
| | displayed in ALS configuration screen. |
| 034586 | 8860 Browser Interface: equation and R2 should be displayed in curve |
| | screen. |
| 034595 | 8860 Browser Interface: when a FPD is configured to a Packed column, |
| | there should be no options under the column flow correction. |
| 034597 | 8860 Browser Interface: default signal rate is 1000Hz instead of 50Hz. |
| 034598 | 8860 Browser Interface: FPD signal should be displayed with units: |
| | 150pA. |

| 034601 | 8860 Browser Interface: there is no COC temp setpoint in Track Oven |
|--------|--|
| 031001 | mode. |
| 024654 | |
| 034654 | 8860 DA Express: There are too many decimal digits of rep factor and |
| | other parameters |
| 034739 | 88xx Browser Interface service mode - module LVDS configuration not |
| | grayed-out for configured modules |
| 034746 | 8860 Browser Interface: when the Aux EPC is part of the flow path, Air |
| | is not allowed. |
| 034748 | 8860 Browser Interface: Aux EPC initial pressure range is not correct |
| | when its mode is ramped pressure. |
| 034749 | 8860 Browser Interface:[Aux EPC] the Aux EPC rate range is not correct |
| | when the ramped pressure is selected. |
| 034753 | 8860 Browser Interface: [Aux EPC] the ramped run time should be |
| | limited by oven run time maximum. |
| 034754 | 8860 Browser Interface: there is a post run under ramped pressure |
| | table or ramped flow table, but it's not editable. |
| 034756 | 8860 Browser Interface: [Aux EPC]Too many decimal places in the |
| | calculated flow. |
| 034783 | 8860 Browser Interface: add the FID flame status in Instrument actual |
| | table. |
| 034798 | 8860 Detector Evaluation is always failure in EPR system |
| 035014 | 8860 Browser Interface: Remove unsupported MSD types from type |
| | list under configuration |
| 035025 | Browser Interface loses its place when a change is made to valve |
| | config. |

| 035148 | Browser: Service Mode Setup: Options should be filtered by availability |
|--------|---|
| | and feasibility |
| 035151 | Diagnostics: Hardware Setup: Confusing button when hardware is not |
| | configured automatically |
| 035363 | Vent and Pump down button could not take effect again for MS control |
| | from touch screen after MS has been pumped down through touch |
| | screen for the first time |
| 035377 | Browser interface calibration: There is no prompt popped up when |
| | pressure and flow zero failed |
| 035381 | Browser interface calibration: "Actual" item under Flow Zero and |
| | Pressure Zero should be renamed as "Zero" |
| 035383 | Browser Interface: "G3520 Transfer line" should be changed to "G3449 |
| | Transfer line" in Aux heater type |
| 035415 | Browser Interface: It should be only Constant Pressure mode for SSL |
| | EPR |
| 035459 | 88x0 Local Data Storage link typo. |
| 035502 | 8860: SSL inlet purge time max range should be 999.99. |
| 035506 | Browser Interface Locale settings change back to English after Brower |
| | Interface reopening |
| 035533 | 8860: default column type should be Capillary in Browser Interface. |
| 035546 | Browser Interface: Solvent wash mode should be changed for G4567A |
| | in 8860 |
| 035571 | Browser Interface: Data rate is always 50Hz and can't be removed |
| | when it is selected with "none" signal source |
| 035581 | 8860 Browser Interface: the ECD signal value unit should be Hz instead |
| | of pA. |

035604 Removing columns from the Browser Interface does not work. 035682 [Browser Interface]: the help info of pressure decay test in self guided diagnostics is not correct. 035687 Method name display in Touchscreen or Browser Interface not displayed. 035735 New PID parameters for splitless injection with G3449A 035797 8860 Touchscreen (from customer): we need to add a Stop button in Touchscreen. 8860 Browser Interface: during column configuration, the interface will 035799 jump into another interface, normally ALS screen. 035816 8860/8890 Touchscreen: the status should be Not Ready when the SSL inlet is waiting for pre-run and purging under Splitless mode. 035818 8860 Browser Interface: in the real-time plot window, two same detector signal can be displayed at the same time. 035825 8860/8890: when running an inlet Pressure Decay Test, the actual inlet pressure is different between in Browser Interface and in Touchscreen. 035826 8860 Browser Interface: In the browser, the GC has 10 available valve positions while in CDS 2 it has 8. 8860 Browser Interface: When column was configured with a PCM as 035827 Inlet, the status of column connection cannot be displayed in Touchscreen. 035829 8860 Browser Interface: packed column actual pressure is always 0 in Touchscreen and in Browser Interface, when a Packed column is configured PCM as inlet.

| 035831 | 8860 Browser Interface: When Packed column is configured PCM as |
|--------|---|
| | Inlet, the flow setpoint cannot be downloaded successfully under |
| | constant flow mode. |
| 035926 | 8860 Browser Interface: there is no 'show all flows/ only show |
| | columns' button at base of column selection table. |
| 035927 | 8860 Browser Interface: if I configure a column to PCM A, Aux PCM A |
| | disappears from the list of columns to control. |
| 035999 | 8860 SSL Inlet: sleep mode is not supported in 8860. |
| 036029 | 8860 FID: The fid's flame status is always OFF no matter it's igniting or |
| | On. |
| 036036 | 88xx online manual should not mention software keypad any more |
| 036108 | [DA Express] Exclusive access to DA Express is now not working |
| 036158 | [DA Express] Amount unit is not displayed in Report |
| 036199 | 8860 Browser Interface: FID H2 actual flow is not correct under column |
| | + fuel = constant mode. |
| 036222 | [DA Express] Only the first channel's Integration parameter and |
| | calibration table get saved to report |
| 036313 | 8860/90 TCD: TCD Switching comes on with above 130 degrees |
| | without selecting filament on or flows on. |
| 036361 | 88x0 NPD Hydrogen flow can't change ON/OFF status in event table |
| | properly via Browser Interface |
| 036391 | 8860 DA: the summary Table in report is displayed incorrectly. |
| 036392 | 8860 Browser Interface: the color of status bar is not displayed |
| | correctly. |
| 036400 | 8860 Browser Interface: under maintenance mode, the FPD block |
| | actual temperature will rise to a high temp. |

| 036482 | [DA Express] Save Method to an existing name does not give any |
|--------|--|
| | notification |
| 036500 | 8860 Browser Interface: carrier gas is not displayed correctly when |
| | controlled by He conservation module. |
| 036501 | 8860: PCM flow is not shown in touchscreen even in flow control mode |
| 036502 | 8860: PCM flow setpoint should not be displayed on Touchscreen |
| | when PCM is under Constant Pressure |
| 036503 | 8860 PCM Aux Channel calibration always failed |
| 036662 | 8860 Touchscreen: some words in Chinese version are not the correct |
| | simplified Chinese. |
| 036683 | 8860 valve: When a (dummy) gas sampling valve is configured as valve |
| | 4,5,6,7, or 8 on 8860, valve 1 will automatically go to on at the start of |
| | any run. |
| 036927 | Abort current run from Browser interface and Touchscreen which is |
| | acquired from GC driver violate the audit requirement, suggest to set |
| | authorization and pop-up for indication |
| 036946 | [DA Express] If user select .D file and then click "OK" under "Load STD" |
| | function, a pop-up exist as attached, which will mis-lead the user. |
| 037084 | Pressing the Stop button does not go through PostRun |
| 037194 | Oven heating too slowly observed at several customer sites |
| 037217 | [DA Express] Curve Graph/Table not showing correct information when |
| | in ISTD mode |
| 037388 | [DA Express] ISTD Calibration curve is incorrect when we have multiple |
| | points for a compound |

| 037415 | When using GC Driver to acquire data, the method parameters are |
|--------|--|
| | "editable" on Browser interface and show "Method download |
| | successful" though actually does not work |
| 037433 | [Online help] Online help for DA Express is still using English screenshot |
| | when language has been switched to Chinese |
| 037453 | 8860 SSL EPR: Purge time cannot be uploaded from instrument |
| | correctly. |
| 037623 | "Host not ready " is not available on 8890/60 with Masshunter |
| 037647 | EPC modules not configured to a column will change the setpoint to 0 |
| | in post run |

1.2.1.10 8860 GC Firmware (Released as point patch only for certain customers - not released to manufacturing)

Released August 2019.

Changes/Fixes in this FW version.

Issue ID Title

037194 "Oven heating too slowly" observed at several customer sites

1.2.0.13 8860 GC Firmware

Released April 2019.

Firmware version 1.2.0.13 fixes some issues in the initial release of the 8860 firmware (version 1.0.61) as listed in the following Team Tracks. No new functionality was added in this firmware version.

| Issue ID | Title |
|----------|---|
| 035596 | Column outlet pressure cannot be set and resets to 0 in the GC Driver |
| | when outlet set to other |
| 035602 | Browser Interface sequence and method entry fields need to be |
| | sanitized. |
| 035603 | Setting up packed columns from the bowser does not work. |
| 035628 | 8890/60 auto-configuration issue |
| 035650 | Analog output signal on 8890 and 8860 GCs is very small compared to |
| | 7890 GCs. |
| 035651 | Analog output signal Zero setting is +- 5000000 instead of +-500000 |
| | like the 7890 GC. |
| 035653 | Changing the Zero value on the 8890 Analog Output does not change |
| | baseline output. |
| 035695 | 8860 Browser Interface: Method name with a space at the end can't be |
| | loaded or deleted |
| 035851 | Invalid Setpoints - Nominal Power |

1.0.61 8860 GC Firmware

Initial release February 2019.

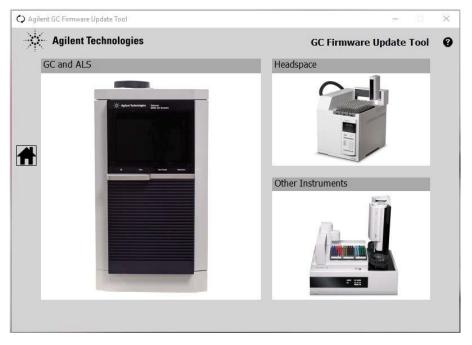
8 Firmware Update Program

It is not possible to downgrade firmware from revision 2.X to revision 1.X

The GC firmware update program is supplied as part of the Firmware Update Package.

Always use the latest version of the update tool.

After the program has been loaded and executed the following screen appears.



This enables the user to select which instrument type needs to have its firmware downloaded. In this case we select the GC and ALS.



The 8860 GC is chosen from the Product menu.

The next screen allows us to either modify firmware or PID values for the EPC modules.

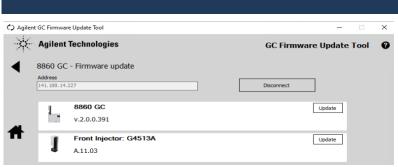
Firmware update is selected.



After choosing to update firmware, you must then enter the IP address of the 8860 GC that you wish to connect to and then press **Connect**.



Information such as current installed firmware will then be displayed.

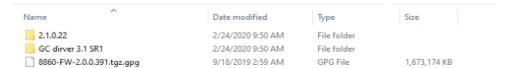


Press Update.

A Windows Explorer directory will then appear, and you must select the firmware revision that needs to be downloaded.

If the required firmware version is not displayed then you can "browse" your hard drive to find it.

The firmware file has the structure 8860-FW-X.X.X.X.tgz.gpg



After you have selected the correct file the firmware will automatically be downloaded.

After the download is finished the GC will reboot and the firmware update is complete.

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