

Loading and Using the Micro GC Reset and Configuration Utilities

Agilent G2890/G2891 Micro Gas Chromatograph

If the main controller board's random access memory (RAM) becomes incoherent, it is necessary to reset it. This is accomplished by using the software utility described below.

Micro GC Reset

- 1. Load the floppy into the floppy drive and access "Run" from the "Start" button.
- 2. Type in "a: setup.bat." This will load and generate two icons, one for uGCreset, and one for zoneconfig.
- 3. Double-click uGCreset. This will automatically reset the micro GC.
- 4. Press the space bar to end the program. See Figure 1.

SC:\WINNT\System32\CMD.exe	- 🗆 ×
uGC Reset; ver 1.3 11/22/99 Comm1 is available Comm2 is available	
uGC did NOT respond on COM1	
uGC found on COM2has been reset;	
uGC reset processing is complete; press SPACE BAR to end program	

Figure 1. Screen capture of the GC Reset utility.



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Reestablishing the Configuration

- 1. Access GCSetup either through the desktop icon or by accessing GCSetup through C:\mti\utility\GcSetup.exe.
- 2. Click on COM1 and/or COM2 based on the type of instrument you have (100's and 200's use one COM port, and three and four channel instruments use two COM ports).
- 3. In "Instrument ID" at the top of the screen, type the instrument name. Usually this is the serial number of the GC.
- 4. Enter "OK." The program will then ask, "Do you want to restore original configuration?" Enter "Yes."
- 5. The last configuration parameters associated with the instrument will automatically be reloaded into Setup.
- 6. Click "Exit" at the bottom right hand portion of the screen. The random access memory (RAM) has now been reset, and re-established. See Figure 2.

MTI GC Setup		×
Communications Link Knonex V No M200 Selected.	Cancel OK	
Module A Injector type & Module option O Timed (Std) O HC StbyOp. O Fixed Loop O BF StbyOp. O Back Flush O FV Oper. Bf Manifold Long PreBF Injector Log Injector Log Ctear CT Offset Maximum CT Y CT Scale CHP Scale X Cancel OK	Module B Installed Injector type & Module option O Timed (Std) O HC StbyOp. O Fixed Loop O BF StbyOp. O Back Flush O FV Oper. Bf Manifold Long PreBF Injector Log Clear CT Offset Maximum CT CT Scale CHP Scale Cancel OK	Options EZChrom Compatible Continuous Flow Safe Shutdown Heated Inlet Cancel OK Error Conditions Shutdown Error M200 I/O Errors Stack Overflow Apparatus Shutdown Slow ADC Clear

Figure 2. Screen capture of the GC Setup utility.

Configuring the GC for Heated Inlet Zones

The surface mount board is not only a direct replacement of the original PCB-2058-11, but can also replace the original heater board, PCB-2051.

Configuring the Board for Heated Inlet Zones

- 1. Double click the zoneconfig icon.
- 2. The configuration utility screen will appear once it has established contact with the GC via its respective COM port.
- 3. Highlight "Update Status Requirement." See Figure 3.
- 4. Press the space bar. This field will now say, "Update Status Requirement...Now?"
- 5. Press "Enter."
- 6. You will now see a message, "in Progress..." At this point, the program has turned off all the heated zones (not including the column temperature) to get the resistance values of the heated zones into a range the program will recognize. Once it does this, the screen will appear as in Figure 4.

1. To change, enter key until the field of	the "Tab" interest is-						2 . To press	ggle between sing the space	states by bar, (e.g.
highlighted. Shortcu	t keys are						on/of	f), COM1/CON	12. '
in parenthesis.	Microsoft	t Quicl	(BASIC						
	Signature	="13	78	ezc";	Firmware=20.	0, G2890A.0	01.01 Errs=	0 COM1	(1)
				module A	READY		module B	READY	
		Tra Li	nsfer ne_A	Inlet_A Fitting	A_Injector Wafer	Transfer Line_B	Inlet_B Fitting	B_Injector Injector_B	
	Setpt Actual RawRdg	OFF	100.00 22.57 49098	OFF 90.00 19.71 48616	0FF 90.00 19.78 33307	0FF 100.00 24.10 49356	OFF 90.00 -1000.00 65535	OFF 90.00 20.21 33364	
	Current Status	Pre	sent	Present	Present	Present	Missing	Present	
0 5 101	Required Status	Und	efined	Undefined	Undefined	Undefined	Undefined	Undefined	
3. For "?" press "Enter" to make	Heated Un	it=Y	(2)		A_Module_Heat	=0ff(3)	B_Modu1	.e_Heat=Off	(4)
change.	Update Status Requirement NOW ? (5)					Delete Status (6) Requirement			
	Paused			Zone Confi	guration Manage	er Rev Ø.1		Quit	(7)

Figure 3. Screen capture of the zone config utility. Fields that are changeable are highlighted in green on your screen, except for "Quit."

Note: The program did not sense a resistance at this zone. By "updating status requirement" the board accepts this as normal, which is then confirmed by the message "not needed".

Microsof	t QuickBASIC					_ D ×	
Signature	e="1378	ezc";	Firmware=20	.0, G2890A.0	01.01 Errs=	Ø COM1	
		module A	READY		module B	READY	
	Transfer Line_A	Inlet_A Fitting	A_Injector Wafer	Transfer Line_B	Inlet_B Fitting	B_Injector Injector_B	
Setpt Actual RawRdg	OFF 100.00 22.51 49087	OFF 90.00 19.71 48618	OFF 90.00 19.80 33307	0FF 100.00 24.07 49350	OFF 90.00 -1000.00 65535	OFF 90.00 20.21 33365	
Current Status	Present	Present	Present	Present	Missing	Present	
Required Status	Present	Present	Present	Present	NotNeeded	Present	
Heated Unit=Y			A_Module_Heat	B_Module_Heat=Off			
Update St Requirema	tatus ent	Delete Status Requirement					
Paused		Zone Config	ruration Manag	er Reu Ø.1		Quit	

Figure 4. The heated zones are now configured. Note, the *Required Status* line. In this case, this is a two-channel instrument with one inlet in the "A" position at the front of the GC.

7. The board is now properly configured as a heated inlet GC. Press the "7" key, and press "Enter". This will exit you out of the program.

Appendix A

The Configuration Utility Screen



Appendix B

How to Copy the Program

1. Insert a floppy disk into drive A, and type in the command as it appears in the figure below (c:\ugcru\makedsk.bat). Press "OK."

Run	?×						
	Type the name of a program, folder, or document, and Windows will open it for you.						
<u>O</u> pen:	c:/ugcru/makedsk.bat						
Run in Separate Memory Space							
	OK Cancel <u>B</u> rowse						

2. The following screen will appear. Choose "A" or "B" depending which drive is your floppy disk drive.



3. Enter "Y".

 Image: C:\WINNT\System32\CMD.exe

 Create G2890 uGC Reset/ZoneCfg disk....

 Select a floppy drive[A,B]?A

 WARNING: You are about to destroy all files that may exist on the 3.5" high density floppy disk in drive A:. Press Y if you wish to continue or N to abort the process.

 Continue [Y,N]?

4. Once all the files are copied, this screen will appear briefly and then disappear.

MS Comman	d Prompt	_ 🗆 X
WARNING:	You are about to destroy all files that may exist on the 3.5" high density floppy disk in drive A:. Press Y if you wish to continue or N to abort the process.	
Continue	[Y,N]?Y	
C:\ugcPu\ C:\ugcPu\ C:\ugcPu\ C:\ugcPu\ C:\ugcPu\ C:\ugcPu\ C:\ugcPu\ C:\ugcPu\ C:\ugcPu\ C:\ugcPu\	MAKEDSK.BAT QBASIK.EXE UGCRESET.BAS ZCONECFG.BAS I file(s) copied. other>CHOICE.COM other>CHOIE.COM other>QBASU.BAS other>RM.EXE other>CBUP.BAT other>CONECFG.BAT other>ZONECFG.BAT / file(s) copied.	
C:\UGCRU	,	

5. At this point, the Micro GC Reset and Configuration Utilities are copied onto the floppy disk.

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