





Micro GC Fusion® OpenLAB CDS EZChrom Edition Driver Installation Guide

PN 074-658-P1B



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Chapter 1 Micro GC Fusion Driver Installation and Configuration

1.1 Introduction

Micro GC Fusion is compatible with Agilent OpenLAB CDS EZChrom Edition software (OpenLAB EZChrom).

To connect Micro GC Fusion to OpenLAB EZChrom software, the Micro GC Fusion driver for OpenLAB EZChrom must be installed on the OpenLAB EZChrom computer and a license for the Micro GC Fusion Driver in OpenLAB or EZ IQ (PN 952-389-G1) must be obtained from INFICON and installed on the Micro GC Fusion.

1.2 Requirements

- A computer installed with OpenLAB EZChrom software
- OpenLAB EZChrom software with at least one available instrument control license installed (i.e., not linked to any instrument)
- Micro GC Fusion software upgraded to version 1.3 or higher
- Micro GC Fusion Driver for OpenLAB EZChrom
- Micro GC Fusion License for OpenLAB EZChrom (PN 952-389-G1)

1.3 Installing Micro GC Fusion Driver for OpenLAB EZChrom

The OpenLAB EZChrom driver is available for download from http://www.inficon.com/tabid/244/en-US/default.aspx.

- **1** Download the Micro GC Fusion driver for OpenLAB EZChrom in the **Software Downloads** tab (http://www.inficon.com/tabid/244/en-US/default.aspx).
 - 1a Click Micro GC Fusion Driver for OpenLAB EZChrom.
 - 1b Enter user information and then click Start Download.
 - 1c The file MicroGCFusion-OpenLABEZChrom-Driver.Setup will download.
- 2 Double-click **MicroGCFusion-OpenLABEZChrom-Driver.Setup** to start the installation process.

3 The INFICON Micro GC Fusion for OpenLAB CDS EZChrom window will display. Click Next. (See Figure 1-1.)

Figure 1-1 OpenLAB EZChrom setup wizard

谢 INFICON Micro GC Fus	ion for OpenLAB CDS EZChrom 🗕 🗆 🗙
NFICON	Welcome to the INFICON Micro GC Fusion for OpenLAB CDS EZChrom Edition Setup Wizard
	The Setup Wizard allows you to change the way INFICON Micro GC Fusion for OpenLAB CDS EZChrom Edition features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.
	Back Next Cancel

4 The End-User License Agreement window will display. (See Figure 1-2.)

Figure 1-2 End-User License Agreement

影 INFICON Micro GC Fusion for OpenLAB CDS EZChrom □ ×
End-User License Agreement Please read the following license agreement carefully
THIS IS A LEGAL AGREEMENT BETWEEN YOU AND INFICON, INC. ("INFICON"). PLEASE CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS BEFORE SELECTING "ACCEPT." THIS LICENSE AGREEMENT REPRESENTS THE ENTIRE AGREEMENT CONCERNING THE SOFTWARE AND THE DOCUMENTATION BETWEEN YOU AND INFICON AND IT SUPERSEDES ANY PRIOR PROPOSAL, REPRESENTATION, OR UNDERSTANDING BETWEEN YOU AND INFICON RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT. BY PROCEEDING WITH INSTALLATION OR VEEDING THE SOFTMARE FOR MODE THAN 20 DAYS. YOU ARE
Print Back Next Cancel



5 If the terms of the End-User License Agreement are acceptable, select I accept the terms in the License Agreement.

6 Click Next. (See Figure 1-3.)

Figure 1-3 Accept the terms in the End-User License Agreement



7 Installation will begin. (See Figure 1-4.)

Figure 1-4 Driver installation

😸 INFICON I	Micro GC Fusion for OpenLAB CDS EZChrom – 🗆 🗙
Installing	INFICON Micro GC Fusion for OpenLAB CDS EZChrom Ed
Please wait v EZChrom Edit	while the Setup Wizard installs INFICON Micro GC Fusion for OpenLAB CDS ton.
Status:	Copying new files
	Back Next Cancel

8 Once the installation is complete, click **Finish** to exit the setup wizard. (See Figure 1-5.)

Figure 1-5 Click Finish to exit the setup wizard



1.4 Micro GC Fusion Driver License Activation

Perform the following steps to activate Micro GC Fusion access from OpenLAB EZChrom.

- **1** Ensure the following materials are readily available:
 - The License Certificate ID from the License Certificate for EZ IQ or OpenLAB Access (PN 952-389-G1)
 - The serial number of the Micro GC Fusion that will connect to OpenLAB EZChrom
 - **NOTE:** The serial number can be found on the product label on the back of the instrument.



- 2 On a computer with access to the internet, open a web browser. Type http://fusionlicense.inficon.com in the address bar and press enter. Enter the License Certificate ID and Instrument Serial Number. (See Figure 1-6.)
 - **NOTE:** Web browsers including the latest version of Google Chrome, FireFox and Internet Explorer are supported. Refer to 074-594-P1 Micro GC Fusion Operating Manual for support on older web browser versions.



Figure 1-6 License Activation and Download

- **3** Click **Download License** to download the **openlab-fusion.license** file onto the computer. (Refer to Figure 1-6.)
 - **NOTE:** If a different computer was used to download the license file, transfer the **openlab-fusion.license** file to the computer connected to Micro GC Fusion.

- **4** Complete the license activation by uploading the Micro GC Fusion license file into the Micro GC Fusion via the web-based user interface on the computer.
 - **4a** On the computer that is connected to Micro GC Fusion, open a web browser. Type the instrument hostname or IP address of the connected Micro GC Fusion in the address bar and press enter.
 - **4b** Click the **System Administration** button. Click the **System Configuration** button.
 - **4c** Click the ricon. (See Figure 1-7.)

Figure 1-7 Upload Micro GC Fusion license file

00	INFICON Micro GC Fusion			pwb1 10.211.50.52
	Time	Carrier Gas for Module A	Hostname	
	May 24 2017, 17:27 🔗	•	pwb1	
	Serial Number	Pressure Units	Automatic IP Address	
	7000001	psi		
	Part Number F08000 B24		Preferred Fallback Address	
	Feature Licenses			
			X Wireless	
	No licenses installed		Password	
			inficonge	
			Static IP Address	
			Address	
			10.10.1.12	
			Subnet Mask	
			255.255.0.0	
			Default Gateway	
ĥ	System Configuration			Notifications <

- **4d** Navigate to the folder that contains the **openlab-fusion.license**. Click **Open** to upload the file.
- 5 The Micro GC Fusion is now licensed for OpenLAB EZChrom access. (See Figure 1-8.)

Figure 1-8 Upload license file is complete

INFICON Micro GC Fusion			pwb1 10.211.50.52
Time	Carrier Gas for Module A	Hostname	
May 24 2017, 17:26 🔗	•	pwb1	
Serial Number	Pressure Units	Automatic IP Address	
70000001	psi		
F08000 B24		Preferred Fallback Address	
Feature Licenses		169.254.1.1	
<u>~</u>		X Wireless	
EZ IQ / OpenLAB activated:		Password	
Jan 21 2016, 12:33		inficonge	
		Static IP Address	
		Address	
		10.10.1.12	
		Subnet Mask	
		255.255.0.0	
		Default Gateway	
System Configuration			Notifications \land



1.5 Configuring OpenLAB EZChrom for Micro GC Fusion

- 1 Press the start button and search and open **OpenLAB Register AIC**.
- 2 Click **Register AIC**. (See Figure 1-9.)

Figure 1-9 OpenLAB Register AIC window

Agilent Open	LAB CDS EZChrom Edition - Registration 🗧 🗖 🗙
OpenLAB Shared Se	rvices Credentials
Username:	
Password:	
Domain:	•
AIC Instrument S	ervice Account Global
AIC Name:	INFICON
Hostname or IP:	INFICON
Port:	9753
Description:	Agilent Instrument Controller: INFICON
Register Driver	s Add Windows Firewall Exceptions
	Register AIC
net.pipe://localhost/	Agilent/OpenLAB/

3 Install the Micro GC Fusion driver on OpenLAB. (See Figure 1-10.)

Figure 1-10 Installing INFICON Micro GC Fusion for OpenLAB

Installing INFICON MICRO G	C Fusion for OpenLAB CDS EZChrom Ed
Please wait while the Setup Wizar EZChrom Ed.	d installs INFICON Micro GC Fusion for OpenLAB CDS
Status:	

4 Verify registration results were successful. (See Figure 1-11.)

Figure 1-11 Registration results

🗈 Agilent OpenLAB CDS EZChrom Edition - Registration 🗕 🗆 🛛 🛛
OpenLAB Shared Services Credentials
Username:
Password:
Domain:
AIC Instrument Service Account Global
AIC Name: INFICON
Hostname or IP: INFICON
Port: Registration Results
Description:
Register Drive Registered: None s Create RecoveryData folder: SUCCESS Multiple Instrument Support: SUCCESS
ОК
net.pipe://localhost-agnenie openiou/

Before configuring OpenLAB EZChrom for Micro GC Fusion, ensure:

- OpenLAB EZChrom software and Fusion Driver license were successfully installed
- Micro GC Fusion driver for OpenLAB EZChrom was successfully installed
- Micro GC Fusion is powered on
- The computer loaded with OpenLAB EZChrom and Micro GC Fusion are physically connected via an Ethernet cable, either through direct connection or through a LAN network

To configure Micro GC Fusion driver for OpenLAB EZChrom:

1 Click the OpenLAB Control Panel icon. (See Figure 1-12.) Alternately, click Start >> Agilent Technologies >> OpenLAB Control Panel.exe.

Figure 1-12 OpenLAB Control Panel shortcut





2 On the Instrument tab, click
and click Create Instrument. (See Figure 1-13.)

Figure 1-13 Create Instrument icon



- 3 In the Name box, type the instrument name. (See Figure 1-14.)
- 4 In the **Description** box, type a description of the instrument.
- 5 In the **Contact** box, type the name of the person responsible for the instrument.
- 6 In the **Default** project box, type a default project name.

NOTE: Alternately, select always use default project with this instrument.

NOTE: Projects can be created by clicking the **Projects** tab, clicking **(E)** and then clicking **Create Project**.

Figure 1-14 Add a name, description, and contact

Create Instrument		
Name:	Micro GC Fusion	
Description:		
Application:	EZChrom	
Instrument controller:	INFICON	
Instrument type:		
Contact:	Lab Technician	
Default project:	0	always use default project with this instrument OK Cancel

7 In the **Instrument type** list, access the shortcut menu and scroll down to select **INFICON Micro GC Fusion**.

(See Figure 1-15.)

Figure 1-15 Select an instrument type

Name:	Micro GC Fusion	
Description:		
Application	E70bram	
Application.	Ezchiom	
nstrument controller:	INFICON	
nstrument type:		
Contact:	Varian CP-3800 GC	
	Varian 3900 GC	
Default project:	Varian CP-2002 MicroGC	
	Varian CP-2003 MicroGC	
	Anilent 490 Micro GC RC Net	
	Hitachi LaChrom (32-bit O/S Only)	
	Hitachi LaChrom Elite	
	Hitachi LaChromUltra	
	Hitachi Chromaster	
	Hitachi ChromasterUltra Rs	
	Hitachi Primaide	
	Waters Alliance LC	
	Perkin Elmer GC	
	Parkin Filmar 200/05517	

- 8 Click OK. (Refer to Figure 1-14.)
- **9** Right-click on the Micro GC Fusion instrument icon and click **Configure Instrument**. (See Figure 1-16.)

Figure 1-16 Configure instrument

Navigation	"	Fusion	
C Instrument	ts	Start Inst	
	licro GC	Project	
		Thoject.	
	Edit		
3	Delete		
0	Edit Notifications		
0	Select Printer	i	
0	Lock	1	
Ö	Create Shortcuts		
0	Configure Instrumer		
8			
0	Close Connection	ıt	
		Last mod	
		Last mod	
		Applicati	
		Instrumo	
		Instrume	
D. Instruments		Instrume	
	ld:		
Projects	Projects		
🗙 Administrat	ion	 Activity 	
		Date/	
	, in the second s		

- **10** The **INFICON Micro GC Fusion** configuration window will display.
- 11 Click the INFICON Micro GC Fusion icon.
- 12 Click is to move the INFICON Micro GC Fusion icon from Available modules to Configured modules. (See Figure 1-17.)

Figure 1_17	INFICON Micro	GC Eusion	driver icon	hefore	and after
iguie i-ii		GCTUSION	unver icon,	Deloie	and aller

Inf	icon Micro GC Fusion	×
Available modules:	Configured modules:	
Options	OK Cancel Help	
Infi	icon Micro GC Fusion	×
Available modules:	Configured modules:	
Options	OK Cancel Help	

- **13** Double-click the INFICON Micro GC Fusion (Unconfigured) icon in the Configured modules pane to open the INFICON Micro GC Configuration window. (See Figure 1-18.)
- 14 Type either the IP address or Hostname of Micro GC Fusion.
- 15 Click Activate Communication.

Figure 1-18 Type Micro GC Fusion IP address or Hostname

<pre> Communication and general information</pre>	_			INFICON Mic	ro GC Fusion C	Configuration	
Communication Instrument information Paddress 10.211.52.30 Paddress 10.211.52.30 Part number Serial number Serial number Modules installed Integrated sample conditioner Remote I/O board Modules information Serial number Modules information Serial number Column description 1 A No - 2 B No - 3 C No - 4 D No - -	2 C	ommunio	ation and ge	neral information	Wodules cont	figuration	
Part number IP address 10.211.52.30 Variable Serial number C Hostname Activate communication Modules installed Modules information Integrated sample conditioner Modules information Serial number I A No - 2 B No - 3 C No - 4 D No -	Co	mmunica	ition		Instrument in	formation	
IP address 10.211.52.30 Serial number Modules installed Modules installed Integrated sample conditioner Activate communication Integrated sample conditioner Modules information Remote I/O board Modules information Serial number I A No - 2 B No - - 3 C No - - 4 D No - -	_		_		Part number		
Note Negative Activate communication Integrated sample conditioner Remote I/O board Modules information Remote I/O board Modules information Serial number Column description 1 A No - - 2 B No - - 3 C No - - 4 D No - -	e	IP add	ress 10	0.211.52.30	Serial number		
Integrated sample conditioner Remote I/O board Modules information Name Installed Part number Serial number Column description 1 A No - - 2 B No - - 3 C No - - 4 D No - -	c	Hostna	ame 🗌		 Modules insta	lled	
Activate communication Integrated sample conditioner Remote I/O board Modules information Serial number Column description 1 A No - - 2 B No - - 3 C No - - 4 D No - -							
Name Installed Part number Serial number Column description 1 A No - - 2 B No - - 3 C No - - 4 D No - -		Ac	tivate commu	inication	Integrated san	nple conditioner	
Modules information Serial number Column description 1 A No - - 2 B No - - 3 C No - - 4 D No - -		Remote I/O board					
1 A No - - - 2 B No - - - - 3 C No - - - - 4 D No - - - -	Мо	dules inf	ormation				
2 B No - - - 3 C No - - - 4 D No - - -	Мо	dules inf	formation	Part number	Serial	Column description	
3 C No - - - 4 D No - - - -	Мо 1	Name	formation Installed No	Part number	Serial number -	Column description	
4 D No	Mo 1 2	Name A B	formation Installed No No	Part number -	Serial number -	Column description	
	Mo 1 2 3	Name A C	formation Installed No No No	Part number - -	Serial number - -	Column description	
	Mo 1 2 3 4	A A A C A A A A A A A A A A A A A A A A	formation Installed No No No	Part number - - - -	Serial number - - - -	Column description	
	1 2 3 4	A A B C D	formation Installed No No No	Part number - - - -	Serial number - - - -	Column description	
	1 2 3 4	A A B C D	formation Installed No No No	Part number - - - - -	Serial number - - - - -	Column description	
DK Cancel Help	Mo	A A B C D	formation Installed No No No	Part number	Serial number - - - - -	Column description	acel Hela



16 Once OpenLAB EZChrom has successfully communicated with Micro GC Fusion, the **Modules information** field will be populated with Micro GC Fusion configuration information. Additional information, such as instrument **Part number** and **Serial number** are available on the right-hand side of the window. (See Figure 1-19.)

				INFICON Mic	ro GC Fusion C	onfiguration	×
5	Co	mmunio	ation and gen	eral information	🐙 Modules conf	iguration	
Communication					Instrument inf	ormation	
	-				Part number		F08180
ľ	•	P address 10.211.52.30		211.52.30	Serial number		70058895
1	0	Hostna	ame		Modules instal	led	2
				1	Integrated sam	ple conditioner	Not installed
	Activate communication		Remote I/O bo	ard	Not installed		
Γ	Modules information						
		Name	Installed	Part number	Serial number	Column description	
	1	А	Yes	140		Rtx-1, 0.15mm (10m)	
	2	в	Yes	3C1		Rt-Alumina Bond/KCl, 0.2	5mm (10m) [Rtx
	3	С	No	-	-	-	
	4	D	No	-	-	-	

Figure 1-19 Micro GC Fusion configuration

17 Select the **Modules configuration** tab to view the **Pressure unit**, **Carrier gas configuration** and additional module information. (See Figure 1-20.)

Figure 1-20 Modules configuration

4	INFICON Micro GC Fusion Configuration								
ĺ	Pressure unit psi								
ľ	Carrier gas configuration Carrier gas at C1 Helium Carrier gas at C3 Helium								
		C2 conn	ector in use		C4 conne	ected in us	e		
l	Car	rier gas	at C2 Heliur	n <u>v</u>	Carrier gas a	at C4	Helium	<u>_</u>	
	Mo	dules co	nfiguration		1				
		Name	Carrier gas	Sample inlet position	Injector type	Max. co (°C)	lumn tempera	ature	
	1	А	Helium	Front	Variable volume	250			
	2	в	Helium	Front	Backflush 0.4 µL	200			
	з	С	-	-	-	0			
	4	D	-	-	-	0			
-	f								
	OK Cancel Help								

- **18** Click **OK** to exit the **INFICON Micro GC Configuration** window. (Refer to Figure 1-20.)
- 19 Click OK to exit the INFICON Micro GC Fusion window.
- **20** Click **()** to launch EZChrom. (See Figure 1-21.)

Figure 1-21 Launch EZ Chrom

		Agilent OpenLAB Control Panel	÷ _
Management	Edit Select Notifications Primter Properties Lock	te Configure Configure from Close Actions Configure State Connection Selected RD	
Navigation	« Fusion		Not Connected
	Start Instrument Project: Fusion		Browse 😝 Launch 🛟 Launch Offlin
	Instrument does not have status	information	
	 Details 		
	Description:		
	Location:	Instruments	
	Created by:	SYSTEM	
	Creation date:	2015-02-11T09:12:52	
	Last configured by:	SYSTEM	
	Last configuration date/time:	2015-02-16T16:17:11	
	Last modified by:	SYSTEM	
	Last modified date/time:	2015-02-16T16:17:11	
	Application:	EZChrom	
	Instrument controller:	INFICON	
	Instrument type:	INFICON Micro GC Fusion	
	Id:	45	
Projects	Owner contact information:		
X Administration	Activity Log for last week G G C 1 2 3	4 <u>5 6 7 8 9</u> Ø Ø Ø	1 - 50 of 45
	Date/Time	User Description	Welcon



Chapter 2 Customer Support

2.1 How To Contact Customer Support

Worldwide customer support information is available under **Contact >> Support Worldwide** at www.inficon.com:

- Sales and Customer Service
- Technical Support
- Repair Service

When contacting INFICON regarding a problem with the Micro GC Fusion driver for OpenLAB EZChrom software, please have the following information readily available:

- the OpenLAB EZChrom software version number
- the type of computer and its specifications
- the Microsoft Windows type and version number
- a description of the problem
- an explanation of any corrective action already attempted
- the exact wording of any error messages received





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