



Agilent OpenLAB Chromatography Data System (CDS) Shimadzu GC-2010, GC-2014

Data Sheet

Agilent OpenLAB CDS uses an open systems approach to integrate instruments from different manufacturers into a single environment. This protects the organizations' investment into instruments, data and knowledge in their analytical laboratories and reduces training and operating costs.

The Agilent M8232AA "Shimadzu GC-2010/2014 Instrument Control Driver" is a software add-on for Agilent OpenLAB CDS EZChrom Edition. It enables full instrument control of and data acquisition from the Shimadzu GC-2010, Shimadzu GC-2010 Plus and Shimadzu GC-2014 in Agilent OpenLAB CDS.

This driver is based on Agilent's Rapid Control (RC.Net) driver technology, an emerging de-facto standard for interfacing instruments into Chromatography Data Systems.



Supported Modules by the Shimadzu GC-2010/2014 Instrument Control Driver

| Module Name | Unit | GC-2010 | GC-2010-Plus | GC-2014 | Min.Firmware Rev. |
|----------------------------|----------------------------|---------|--------------|---------|-------------------|
| GC | GC-2010 | Yes | N/A | N/A | 1.1210 |
| GC | GC-2010 Plus | N/A | Yes | N/A | 2.1040 |
| GC | GC-2014 | N/A | N/A | Yes | 1.1210 |
| Autoinjector | AOC-20i | Yes | Yes | Yes | 2.10 |
| Autosampler | AOC-20s | Yes | Yes | Yes | 1.40 |
| Autosampler | AOC-20d (M) | Yes | Yes | N/A | 2.10 |
| Autosampler | AOC-20d (S) | Yes | Yes | N/A | 2.10 |
| Detector | FID | Yes | Yes | Yes | N/A |
| Detector | DFID | N/A | N/A | Yes | N/A |
| Detector | FTD | Yes | Yes | Yes | N/A |
| Detector | FPD | Yes | N/A | Yes | N/A |
| Detector | FPD+ | N/A | Yes | N/A | N/A |
| Detector | ECD | Yes | Yes | Yes | N/A |
| Detector | BID | N/A | Yes | N/A | N/A |
| Detector | TCD-S | Yes | Yes | N/A | N/A |
| Detector | TCD-L | N/A | N/A | Yes | N/A |
| Injection Port | SPL | Yes | Yes | Yes | N/A |
| Injection Port | WBI | Yes | Yes | Yes | N/A |
| Injection Port | OCI/PTV | Yes | Yes | N/A | N/A |
| Injection Port | SINJ | N/A | N/A | Yes | N/A |
| Injection Port | DINJ | N/A | N/A | Yes | N/A |
| Additional Flow Controller | APC (3 auxiliary channels) | Yes | Yes | Yes | N/A |
| Additional Flow Controller | AMC (2 auxiliary channels) | N/A | N/A | Yes | N/A |
| Oven controller | CRG | Yes | Yes | Yes | N/A |
| Other | PRG-2010 | Yes | Yes | No | N/A |

OpenLAB CDS Software Requirements

- Supported on OpenLAB CDS EZChrom Edition A.04.05.

Note: RC.Net drivers are version independent and this driver is expected to be compatible with OpenLAB CDS EZChrom Edition A.04.06 and A.04.07. This will be confirmed through formal compatibility testing in late 2014 which is planned to be completed by the end of March 2015.

Supported Languages

- English and Japanese

Supported Topologies and Virtualization

- OpenLAB CDS EZChrom Edition: Workstation, Networked Workstation, Distributed Systems
- Requires an additional, dedicated network interface card.
- Installations on virtual machines (e.g. VMware) are supported in principle, and have special installation requirements.
 - The recommended control option for the Shimadzu GC-2010 and GC-2014 is through LAN. This will require an additional, dedicated network interface card.
 - The Shimadzu GC-2010 and GC-2014 also support control through the serial RS-232 interface. In this case, the use of an RS-232-to-USB interface is recommended. For virtualized installations if the GC is controlled through RS-232 instead of LAN.
 - The use of RS-232-to-USB adapters will be required for virtualized installations if the GC is controlled through RS-232 instead of LAN.

Note: Virtualized installations where the number of instruments is greater than the number of physical network interfaces, require configuring virtual networks (VLAN). Please contact Agilent's Professional Services Team if virtualized deployment is planned.

Operating System Requirements

- Windows 7 SP1 32/64-bit English

Note: Windows XP, Vista, Windows 2003 Server are not supported by OpenLAB CDS.

OpenLAB CDS Hardware Requirements

- See the hardware requirements specified for the respective OpenLAB CDS EZChrom Edition revision.
- This software can control a maximum of up to 4 Shimadzu GC-2010/2014 instruments per one OpenLAB CDS EZChrom Edition workstation. For multi-instrument configurations, please check the exact specifications for OpenLAB CDS.

Instrument Requirements

The instrument must conform to the compatibility list and the minimum firmware requirements. It is expected that the instrument has been installed and prepared according to the manufacturer's guidelines.

Ordering Information

| Part Number | Description | Notes |
|-------------|--|--------------------------------------|
| M8232AA | OpenLAB CDS EE Shimadzu GC 2010,2014 | 1 license per Shimadzu GC instrument |
| M8300AA | Non-Agilent Instrument Control License | 1 license per Shimadzu GC instrument |

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This information is subject to change without notice.

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