

**PERKINELMER CLARUS GC CONTROL
SOFTWARE FOR OPENLAB CDS
EZCHROM EDITION AND EZCHROM ELITE**



Chromatography Data System

**Advantages, Architecture,
Workflow, VWR Support**



penLAB

PerkinElmer Clarus GC Control

This instrument control driver integrates the PerkinElmer Clarus GC systems into the widely-used OpenLAB CDS EZChrom Edition and EZChrom Elite software platforms from Agilent. Using these chromatography data systems, the PerkinElmer Clarus GC systems can run along with instruments from other manufacturers in one software platform. You benefit from one single cost-effective solution to support your analytical work, therefore minimising software training requirements and simplifying the exchange of technical staff. Whether your OpenLAB CDS EZChrom Edition/EZChrom Elite implementation is a single workstation or a fully equipped and company-wide enterprise solution (client server network) the Clarus GC instrument control driver can be used for both deployment types.

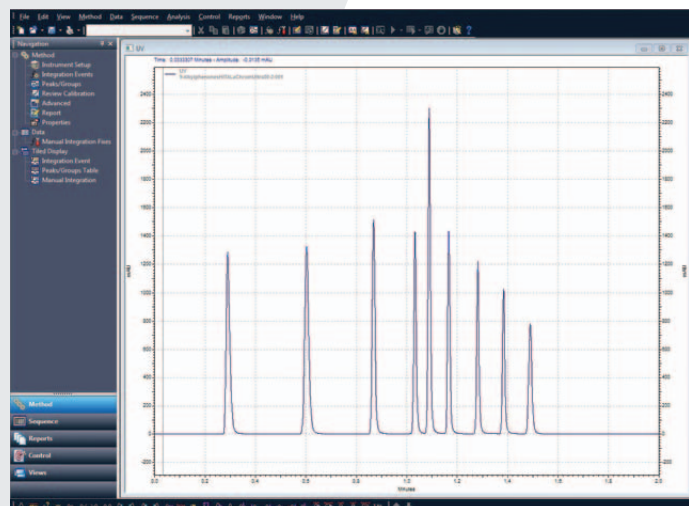
Specifications

Following PerkinElmer GC instruments can be controlled:

PerkinElmer GC Instruments	
Clarus 400 / 480	
Clarus 500 / 580	
Clarus 600 / 680	

The Instrument Control Software for PerkinElmer Clarus GC provides full control for autosampler, injectors, detectors, oven, valves and pneumatic pressure control. The following configurations are supported by the Clarus GC Control Software:

Clarus Modules	
Autosampler	
Injectors	with and without PPC - Packed - Capillary - Programmable On Column - Programmable Split/Splitless
Detectors	with and without PPC - FID - ECD - EICD - TCD - PID - FPD - NPD - External detector (EXTN)
Timed Events	Valves



Instrument Setup

Data Channels:

The Data Channels control how EZChrom acquires analog and digital data by setting the channel or channels for data collection, and the data sampling rate.

Autosampler:

To define an autosampler and to set parameters.

Oven and Inlet control :

The Oven and Inlet settings control the oven temperature of the gas chromatograph, the rate at which the temperature increases, the type of coolant that is used, and the zone setpoints for injectors and detectors.

Carrier

The Carrier settings control parameters such as the inlet pressure or flow rate for carrier gas.

Detectors:

The Detector settings control the temperature of the detector, the detection sensitivity and the magnitude of any optional analog signal output from the GC.

Valves:

The Instrument Timed Events allow the control of initial settings for any valves installed on the instrument.

The figure shows the 'Instrument Setup' screen for the PerkinElmer Clarus GC Control. The 'Oven' tab is selected, and the 'Program time (min)' is set to 5.00. The 'Oven Ramp' table is displayed, showing a sequence of temperature changes. The 'Heated zone setpoints (°C)' are also configured for the injectors and auxiliary.

Oven Ramp	Rate	Temp	Hold
Initial	0.0	200	5.00
1	0.0	0	0.00
2	0.0	0	0.00
3	0.0	0	0.00
4	0.0	0	0.00

Heated zone setpoints (°C)	Value
Injector A	250
Injector B	250
Auxiliary	0

Figure 1: Instrument Setup screen for the PerkinElmer Clarus GC Control for OpenLAB CDS EZChrom Edition software (Oven setup).



Regulatory Compliance

The full set of instrument parameters is monitored and audited through the compliance features in-built in OpenLAB CDS EZChrom Edition / EZChrom Elite chromatography data software. They offer the complete range of GXP-related functions and 21 CFR Part 11 compliance as e.g. audit trails, automatic documentation of the instrument parameters, maintenance parameters, etc.

Requirements

Software Requirements:

- OpenLAB CDS EZChrom Edition A.04.03 or higher
- EZChrom Elite software. Version 3.3.1 or higher
- Microsoft .NET 2.0
- Further software requirements according to the OpenLAB CDS EZChrom Edition/EZChrom Elite specifications

PerkinElmer Clarus GCs:

Internal RS232C interface connector. LINK box will not be used. Minimum Firmware Requirements may apply.

Computer connectivity:

- Up to four(4) PerkinElmer Clarus GCs systems can be connected to one PC.

Interface Requirements:

Per GC one serial RS232C port at the PC is required.

Description	Article No.
Perkin Elmer Clarus GC Control for OpenLAB CDS EZChrom Edition and EZChrom Elite	906-0136



DISTRIBUTION PARTNER

VWR International GmbH
Scientific Equipment and Services
Hilpertstraße 20 A
D-64295 Darmstadt
Fax: +49 – 6151 – 3972 – 102
www.vwr.com • chrom-instruments@de.vwr.com

In other countries, please call your local VWR International sales office or distribution partner.

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Austria

VWR International GmbH
Graumannsgasse 7
1150 Vienna
Tel.: +43 1 97 002 0
Fax: +43 1 97 002 600
Email: info@at.vwr.com

Belgium

VWR International bvba
Researchpark Haasrode 2020
Geldenaaksebaan 464
3001 Leuven
Tel.: 016 385 011
Fax: 016 385 385
Email: vwrbe@be.vwr.com

Czech Republic

VWR International s. r. o.
Veetee Business Park
Pražská 442
CZ - 281 67 Stříbrná Kalice
Tel.: +420 321 570 321
Fax: +420 321 570 320
Email: info@cz.vwr.com

Denmark

VWR - Bie & Berntsen
Transformervej 8
2860 Søborg
Tel.: 43 86 87 88
Fax: 43 86 87 90
Email: info@dk.vwr.com

Finland

VWR International Oy
Valimotie 9
00380 Helsinki
Tel.: 09 80 45 51
Fax: 09 80 45 52 00
Email: info@fi.vwr.com

France

VWR International S.A.S.
Le Périgares – Bâtiment B
201, rue Carnot
94126 Fontenay-sous-Bois cedex
Tel.: 0 825 02 30 30 (0,15 € TTC/min)
Fax: 0 825 02 30 35 (0,15 € TTC/min)
Email: info@fr.vwr.com

Germany

VWR International GmbH
Hilpertstraße 20a
D - 64295 Darmstadt
Free call: 0800 702 00 07
Fax: 0180 570 22 22*
Email: info@de.vwr.com
*0,14 €/Min. aus d. dt. Festnetz

Hungary

VWR International Kft.
Simon László u. 4.
4034 Debrecen
Tel.: (52) 521-130
Fax: (52) 470-069
Email: info@hu.vwr.com

Ireland / Northern Ireland

VWR International Ltd /
VWR International (Northern Ireland) Ltd
Orion Business Campus
Northwest Business Park
Ballycoolin
Dublin 15
Tel.: 01 88 22 222
Fax: 01 88 22 333
Email: sales@ie.vwr.com

Italy

VWR International PBI S.r.l.
Via San Giusto 85
20153 Milano (MI)
Tel.: 02-3320311/02-487791
Fax: 800 152999/02-40090010
Email: info@it.vwr.com

The Netherlands

VWR International B.V.
Postbus 8198
1005 AD Amsterdam
Tel.: 020 4808 400
Fax: 020 4808 480
Email: info@nl.vwr.com

Norway

VWR International AS
Haavard Martinsens vei 30
0978 Oslo
Tel.: 02290
Fax: 815 00 940
Email: info@no.vwr.com

Poland

VWR International Sp. z o.o.
Limbowa 5
80-175 Gdansk
Tel.: 058 32 38 200 do 204
Fax: 058 32 38 205
Email: info@pl.vwr.com

Portugal

VWR International -
Material de Laboratório, Lda
Edifício Neopark
Av. Tomás Ribeiro, 43- 3 D
2790-221 Carnaxide
Tel.: 21 3600 770
Fax: 21 3600 798/9
Email: info@pt.vwr.com

Spain

VWR International Eurolab S.L.
C/ Tecnología 5-17
A-7 Llinars Park
08450 - Llinars del Vallès
Barcelona
Tel.: 902 222 897
Fax: 902 430 657
Email: info@es.vwr.com

Sweden

VWR International AB
Fagerstagatan 18a
163 94 Stockholm
Tel.: 08 621 34 00
Fax: 08 621 34 66
Email: kundservice@se.vwr.com

Switzerland

VWR International GmbH
Lerzenstrasse 16/18
8953 Dietikon
Tel.: 044 745 13 13
Fax: 044 745 13 10
Email: info@ch.vwr.com

Turkey

VWR International Laboratuvar Tekno-
lojileri Ltd.Şti.
Orta Mah. Cemal Gürsel Caddesi
Ördekcioglu İşmerkezi No.32/1
34896 Pendik - İstanbul
Tel.: +90216 598 2900
Fax: +90216 598 2907
Email: info@pro-lab.com.tr

UK

VWR International Ltd
Customer Service Centre
Hunter Boulevard - Magna Park
Lutterworth
Leicestershire
LE17 4XN
Tel.: 0800 22 33 44
Fax: 01455 55 85 86
Email: uksales@uk.vwr.com

Australia

VWR International, Pty Ltd.
Unit 1/31 Archimedes Place
Murarrie, Queensland 4172
Tel.: 1300 727 696
Fax: 1300 135 123

China

VWR International China Co. Ltd.
Shanghai Branch, Room 256, No. 3058
Pusan Road
Pudong New District
Shanghai 200123, China
Tel.: +86 21 5898 6888
Fax: +86-21-5855 8801
Email: info_china@vwr.com

India

VWR Lab Products Private Limited
135/12, Brigade Towers, 2nd Floor
Front wing, Brigade Road,
Bengaluru, India – 560 025
Tel.: +91-80-41117125/26 (Bengaluru)
Tel.: +91-2522-647911/922 (Mumbai)
Fax: +91-80-41117120
Email: vwr_india@vwr.com

New Zealand

Global Science - A VWR Company
241 Bush Road
Albany 0632, Auckland
Tel.: 0800 734 100
Fax: 0800 999 002
Email: sales@globalscience.co.nz

Singapore

VWR Singapore Pte Ltd
18 Gul Drive
Singapore 629468
Tel.: +65 6505 0760
Fax: +65 6264 3780
Email: sales@sg.vwr.com