



CLARITY – LIST OF CURRENTLY CONTROLLED INSTRUMENTS (version 3.0)

GCs (p/n A23)

Producer	Name	Interface	Status
Agilent	4890D, 5890 II, 5890A, 6820, 6890	RS232	Ready
Agilent	6850, 6850 II, 6890 Plus, 6890N	RS232, LAN	Ready
Agilent	7890	LAN	Ready
CSI ^{/1,2}	300 Series	RS232 + A/D converter	Ready
Dani	GC1000	RS232 + A/D converter	Ready
Dani ^{/1,2}	GC Master	RS232	Ready
Shimadzu	GC17A, GC14C	RS232, OPT-USB + A/D converter	Ready
Shimadzu	GC2010, GC2010 Plus, GC2014, GC2014C, GC2014C APC/AFC	RS232	Ready
YL Instrument ^{/1}	YL6100	RS232	Ready

HPLC Systems (p/n A24)

New
New
New

Producer	Name	Interface	Status
Agilent	1100 system	GPIB, LAN	Ready
Agilent	1200 system (<i>selected modules only</i>)	LAN	Ready
Antec	ALEXYS, ROXY	RS232	Ready
CVC Technologies ^{/3}	CVC 100	LAN	Testing
GL Science ^{/1}	LC800	USB	Ready
Ingos ^{/1}	LC 5000	LAN	Testing
Knauer ^{/1}	Smartline	RS232	Ready
LabAlliance	B2300, VersaGrad, VersaGrad UHP	RS232 + LC UNI	Ready
Merck – Hitachi ^{/4}	LaChrom Elite	USB ^{/5}	Ready
Shimadzu ^{/4}	LC-10, LC-20 Prominence	RS232 or LAN + corresp. controller (see HPLC Other)	Ready
YL Instrument ^{/1}	YL9100	LAN/RS232	Ready

HPLC Pumps (p/n A24)

Producer	Name	Interface	Status
Agilent	1100: Binary, quaternary, isocratic	GPIB, LAN	Ready
Agilent	1200: Binary, quaternary, isocratic	LAN	Ready
Alltech/Grace	301, 426, 626, 726	RS232 - LC UNI	Ready
Analytical Technologies	ALC2010, ALC2100, COLUMN-WASH	RS232 - LC UNI	Ready
Antec	LC100, LC110 ^{/3}	RS232	Ready
Beckman/Altex	110A, 110B, 114	CB20	Ready
Bio-Rad	1350	CB20	Ready
Bischoff	2250	RS232	Ready
Chrom Tech	ISO-100, ISO-1000, ISO-1500, ISO-2000	RS232	Ready
Chromophor	Chromophor 2010	RS232 - LC UNI	Testing
Chromsystems	CLC 300	CB20	Ready
Chromsystems	CLC 330	RS232	Ready
Ecom	LCP 4020, LCP 4000	CB20	Ready
Ecom	LCP 4100, Alpha10, Alpha 50, Alpha 100, Beta 10, Beta 50, Kappa 10	RS232 - LC UNI	Ready
Ecom ^{/1}	Alpha 05, Alpha10, Alpha 50, Alpha 100, Beta 10, Beta 50, LCP 4050, LCP 4100	RS232	Testing
Flom	301M, AI-12 series	RS232 - LC UNI	Ready
Flux - Thermo ^{/1}	Rheos 2000, Rheos 2200, Allegro	RS232	Ready
Gilson	302-303, 305-307	GSIOC	Ready

	Gynkotech	M300CS, M480	CB20	Ready
	JASCO	PU-880	CB20	Ready
	Knauer	M64, K-500, K-501	CB20	Ready
	Knauer	Smartline S1000	RS232 - LC UNI	Ready
	Knauer ^{/1}	Smartline S1000, S100, K-1000, K-1001, K-120, K-501, K-1800	RS232	Ready
	Knauer ^{/1}	S1050	RS232 or LAN	Ready
	Kontron	420, 422	RS232 - LC UNI	Ready
	Kontron	320, 322, 325	RS232 - LC UNI	Testing
	LabAlliance	222D	CB20	Ready
New	LabAlliance	Mighty-Mini	RS232 – UNI RUBY	Testing
	LabAlliance	Series III, 150, 1500	CB20, RS232- LC UNI	Ready
	LabAlliance	Series I, II, Q-Grad, Prep 100	RS232 - LC UNI	Ready
	LKB - Amersham	2150, LKB 3500, P-50, P-500	CB20	Ready
	Merck - Hitachi	L-2100, L-2130	USB ^{/5}	Ready
	Merck - Hitachi	L-6200, L-6210	RS232	Ready
	Merck - Hitachi	L-6000	via L-6200	Ready
	Recipe	GP3000, IP3000	RS232 - LC UNI	Ready
	Schambeck	SDS 9414 I, 9404	CB20	Ready
	Schambeck	SFD 2100	RS232	Ready
	Shimadzu	LC-6A	CB20	Ready
	Shimadzu	LC-10AD, LC-10ADvp, LC-10Ai, LC-10AT, LC-10ATvp, LC-10AS, LC-20AD, LC-20AB, LC-20AT, LC-20AS, LC-20ADXR, LC-8A, LC-6AD	Shimadzu controller (see HPLC Other)	Ready
	Shimadzu	LC-10ADvp, LC10-ATvp; LC-20A series (in LC-10 emulation mode only)	OPT-USB	Testing
New	Spark Holland	SPH-1240	RS232, USB or LAN	Testing
	Sykam	S1021, S1122, S1521	CB20	Ready
	Sykam	S2100	RS232	Ready
	Teledyne ISCO	2300	CB20	Ready
	TSP	Constametric 300	CB20	Ready
	Unicam	PU 4015	CB20	Ready
	Waters	M 45, 501, 510, 515, 6000A	CB20	Ready
	Watrex	DeltaChrom SDS20, SDS30, P200	RS232 – LC UNI	Ready
New	Watrex	Mighty-Mini	RS232 – UNI RUBY	Testing
	YL Instrument ^{/1}	YL9110, YL9111, YL9112	LAN	Ready
		Any pump with flow controlled by voltage or frequency	CB20	Ready
		Any pump with on-line flow controlled by text (ASCII) comm. protocol	RS232 – LC UNI	Ready

HPLC Detectors (p/n A24)

Producer	Name	Interface	Status
Agilent	1100: VWD, RID, FLD	GPIB, LAN	Ready
Agilent	1200: VWD, RID, FLD (<i>selected modules only</i>)	LAN	Ready
Agilent	1200: ELSD	RS232	Ready
Analytical Technologies	ASPD2600	RS232	Ready
Antec	DECADE II, DECADE II SDC, DECADE II MD, ROXY Potentiostat	RS232	Ready
Ecom	Apatit ^{/1} , Flash 06 DAD ^{/1} , Malachite ^{/1} , Opal ^{/1} , Sapphire ^{/1} , Topaz	RS232	Ready
ESA	Coulochem III	USB	Ready
Knauer ^{/1}	Smartline S2500 VWD, S2510, S2300 RID, S2400 RID, S200 UV; K-2600, WellChrom RI (K-2300, K-2301, K-2400, K-2401), WellChrom UV (K-2000, K-2001, K-2500, K-2501)	RS232	Ready
Knauer ^{/1}	S2520 VWD, S2550 VWD	RS232 or LAN	Ready
Merck - Hitachi	L-2400	USB ^{/5}	Ready
Recipe	FW3000 ^{/3} , UV3000	RS232	Ready
Schambeck	RI 2000	RS232	Ready
Schambeck	S3210, S3240	RS232	Testing
Sedere	80LT, 85LT	RS232	Ready
Shimadzu	SPD-10A, SPD-10Ai, SPD-10Avp, SPD-10AV, SPD-10AVi, SPD-10AVvp, SPD-20A, SPD-20AV, RID-10A, RF-10A, RF-10Axl	Shimadzu controller (see HPLC Other)	Ready
Shimadzu ^{/3}	RF-10Axl	RS232	Ready
Shimadzu	ELSD-LTII	RS232	Testing
Softa	200S, 300S, 400, 1300, 1400	RS232	Ready
Sykam	S3210, S3240	RS232	Testing
YL Instrument ^{/1}	YL9120	LAN	Ready
YL Instrument ^{/1}	YL9170, YL9180, YL9181	RS232	Ready

PDA Detectors (p/n A24 + p/n A29)

Producer	Name	Interface	Status
Agilent	1100: DAD, MWD	GPIB, LAN	Ready
Agilent	1200: DAD ^{/6} , MWD ^{/6}	LAN	Ready
Agilent	1200: DAD (G1315C, G1315D only)	LAN	Testing
Duratec ^{/7}	DDT-3200 PDA	USB	Ready
Knauer ^{/1}	Smartline S2600 MWD	RS232	Ready
Knauer ^{/1}	S2800 PDA, S2850 PDA, K-2700, K-2800	LAN	Ready
Schambeck	S3210, S3240	RS232	Testing
Shimadzu	SPD-M10Avp, SPD-M20A	Shimadzu controller (see HPLC Other)	Ready
Sykam	S3210, S3240	RS232	Testing
YL Instrument ^{/1}	YL9160	LAN	Ready

HPLC Column Ovens (p/n A24)

Producer	Name	Interface	Status
Agilent	1100 TCC	GPIB, LAN	Ready
Agilent	1200 TCC	LAN	Ready
Cluzeau Info-Labo	Croco-CIL, Gecko-2000, Igloo-CIL	RS232 – UNI RUBY	Testing
Ecom	LCO 102	RS232 – UNI RUBY	Ready
Knauer ^{/1}	Smartline S4000, S4050, JetStream	RS232	Ready
Lab Alliance	605 COC	RS232 – UNI RUBY	Ready
Merck – Hitachi	L-2300	USB ^{/5}	Ready
Recipe	CH3000	RS232 – UNI RUBY	Ready
Shimadzu	CTO-10A, CTO-10Avp, CTO-10AC, CTO-10ACvp, CTO-10ASvp, CTO-20A, CTO-20AC	Shimadzu controller (see HPLC Other)	Ready
Spark Holland	Mistral	RS232	Ready
Techlab	K-7	RS232 – UNI RUBY	Ready
Watrex	CTC 100	RS232 – UNI RUBY	Ready
YL Instrument ^{/1}	YL9130	LAN	Ready

HPLC Other (p/n A24)

Producer	Type	Name	Interface	Status
Knauer ^{/1}	interface	I-Box, IF2, Smartline Manager 5000	RS232	Ready
Shimadzu	controller	SCL-10Avp, CBM-20A, CBM-20Alite	RS232 or LAN	Ready

Autosamplers (p/n A26)

Producer	Name	Interface	Status
Alltech/Grace	570, 580	RS232	Ready
Agilent	7673, 7673 II	RS232	Ready
Agilent	7683	through GC6890	Ready
Agilent	7683, 7693	through GC7890	Ready
Agilent	1100 ALS, TAS	GPIB, LAN	Ready
Agilent	1200 ALS, TAS	LAN	Ready
Analytical Technologies	AS2000	RS232	Ready
Antec	AS 100, AS 110 ^{/3} , AS 110 Micro ^{/3}	RS232	Ready
Chromsystems	CLC 200	RS232	Ready
CTC Analytics	A200S, PAL (GC, LC, Combi), PAL-xt (LC-xt, HTC-xt, HTS-xt, HTX-xt, GC-xt, Combi-xt, Combi-xt extended)	RS232	Ready
Dani	ALS1000, Master AS ^{/1,2} , Master DHS ^{/1,2}	RS232	Ready
ESA	542	RS232	Ready
HTA	HT300A, HT300L, HT310A, HT310L, HT300LV, HT200H, HT250D, HT280T (without SPME), HT800L ^{/1}	RS232	Ready
Knauer	Smartline AS 3800, AS 3900, AS 3950 ^{/1} , PLATINblue AS-1 ^{/1}	RS232	Ready
New Kontron	360, 560	RS232 – UNI RUBY	Testing
Merck - Hitachi	L-2200	USB ^{/5}	Ready
Recipe	AS3000	RS232	Ready
Schambeck	S5200	RS232	Ready
Shimadzu	AOC-20i, AOC-20s, AOC-20d	RS232	Ready
Shimadzu	SIL-10ADvp, SIL-10AF, SIL-HTA, SIL-HTC, SIL-20A, SIL-20AC, SIL-10AXL, SIL-20AXR, SIL-20ACXR	Shimadzu controller (see HPLC Other)	Ready
Spark Holland	Basic Marathon (Plus, XT), Midas, Endurance, Triathlon, Alias ^{/6}	RS232	Ready
Spark Holland	Alias (including User Program)	RS232, USB or LAN	Ready
Sykam	S5200	RS232	Ready
YL Instrument ^{/3}	YL9150	RS232	Ready
YL Instrument ^{/2}	YL9151	RS232	Testing
	any autosampler with the Ready input and Inject output (Inject marker)	I/O device	Ready

Fraction collectors (p/n A24)

Producer	Name	Interface	Status
Bio-Rad	BioFrac	FC GP	Ready
Büchi ^{/3,8}	C-660		Ready
Gilson	203	FC GP	Testing
Knauer ^{/1,8}	S3000, S3050		Ready
LKB Amersham	Frac100	FC GP	Testing
Teledyne ISCO	FOXY 200, FOXY Jr.	FC GP	Ready
Teledyne ISCO	FOXY R1, FOXY R2	FC GP	Testing
Teledyne ISCO ^{/3,8}	FOXY Jr., FOXY R1, FOXY R2		Ready
	Any fraction collector using the Next and Collect/Waste events	Clarity-controlled device with 2 TTL outputs (INT7, etc.) + FC GP	Ready

Valves (p/n A24 or A23)

Producer	Name	Interface	Status
Knauer ^{/1}	K-6, K-12, K-16	RS232	Ready
Rheodyne	MX series II Valves	USB	Ready
Upchurch	V-2500	RS232	Ready
Vici-VALCO	ET, EH, EP, EMH, EMT, ECMH, ECMT	RS232	Ready

Amino Acid Analyzers

Producer	Name	Interface	Status
Sykam ^{/2}	S4300 Amino Acid Reaction Module System	RS232	Ready

Balances for Clarity EA Extension (p/n A30)

Producer	Name	Interface	Status
Mettler Toledo	Balances AT, MT, UMT	RS232	Ready
Sartorius	Balance M2P, CP, GC and GP models	RS232	Ready

Interface types:

- RS232 = Serial communication. Specify the type of the cable or instrument.
- LAN = Network communication. Specify the type of the cable or instrument.
- USB = USB communication. Specify the type of the cable or instrument.
- GPIOB = hardware: Interface card for older Agilent 1100 system, Part No.: IAG11 (PCI interface) or IAG12 (USB interface)
- GSIOC = hardware: Converter for Gilson serial communication, Part No.: IGLN1
- CB20 = hardware: Internal (PCI) LC Control card (4x D/A & 4x D/F converter), Part No.: A27
- OPT-USB = hardware: Optical to USB converter, Part No.: OPT01
- A/D converter = hardware: A/D converter is needed to gather data because the instrument does not support digital acquisition. Part No.: I71, I92, I94, U22 or N2
- I/O device = hardware: Device capable of sending and receiving TTL signals governed by Clarity, for example any DataApex A/D converter. Part No.: I71, I92, I94, U22 or N2
- LC UNI = software: Universal LC control module for online pumps, Part No.: A24
- FC GP = software: General Purpose Fraction Collector control module for Clarity, Part No.: A24
- UNI RUBY = software: Universal control module for various instruments, Part No.: A24

Status:

- Ready = the module has been subject to extensive testing and has been officially RELEASED.
- Testing = the module is already functional and its development is in stage of external testing often called public BETA. It is possible to get this control module and help us with fine tuning the driver for your specific configuration.

Notes:

1. Developed by instrument's producer.
2. Exclusively available from the instrument's producer – needs a release code.
3. Developed by third party.
4. Only limited number of these systems on one Clarity is possible - see appropriate manual or product page.
5. One module in the LaChrom Elite system must have Interface Card installed.
6. The G1315A, G1315B, G1365A, G1365B sub-types only.
7. Exclusively available from the instrument's producer – only sold by instrument's producer.
8. Available from Knauer company only (in the ClarityChromPrep OEM version).
9. Exclusively available from the instrument's producer in the particular OEM version.