

## CLARITY – LIST OF CURRENTLY CONTROLLED INSTRUMENTS (version 9.1)

### GCs (p/n A23)

	Producer	Name	Interface	Status
	Agilent	4890D, 5890 II, 5890A, 6890	RS232	Ready
	Agilent	6820, 6850, 6850 II, 6890 Plus, 6890N	RS232 or LAN	Ready
	Agilent	6850, 6890 Plus, 6890A, 6890N, 7820, 7890A, 7890B, 8860, 8890, Intuvo 9000	LAN - ICF	Ready
	Agilent	7890A, 7890B	LAN	Ready
	Ample Technology Center	ATC-6900 GC	LAN	Ready
	Apix <sup>/1</sup>	ChromPix2, TwinPix	LAN	Ready
	Dani	GC1000	RS232 + A/D converter	Ready
	Dani <sup>/1,2</sup>	Master GC	RS232 or LAN	Ready
	Ellutia <sup>/1,3</sup>	Series 200	RS232 + A/D converter	Ready
	Ellutia <sup>/1,2</sup>	Series 300	RS232 + A/D converter	Ready
	Ellutia <sup>/1,3</sup>	Series 500	LAN + A/D converter	Ready
	Fuli <sup>/1</sup>	GC 9720 Plus, GC 9790 Plus	LAN	Ready
	GOW-MAC	Series 816	LAN	Ready
	GOW-MAC	Series 836	LAN - ICF	Ready
Update	Labio Analytics Group S.a r.l. <sup>/1</sup>	GC11-UV	USB	Ready
	Netel (India) Ltd. <sup>/1</sup>	Analyte 2900A, Chrom Lite 3000A	A/D converter + RS232	Testing
	Netel (India) Ltd. <sup>/4</sup>	Chrom Plus 6000	LAN	Testing
	Shanghai Sunny Hengping Scientific Instrument <sup>/1</sup>	GC1290	LAN	Testing
	Shimadzu	GC14C, GC17A	RS232, OPT-USB + A/D converter	Ready
	Shimadzu	GC2010, GC2010 Plus, GC2010 Pro, GC2014, GC2014C, GC2014C APC/AFC	RS232	Ready
	Shimadzu <sup>/1,5</sup>	Nexis GC-2030	LAN - ICF	Ready
	Young In Chromass <sup>/1</sup>	ChroZen GC	LAN	Testing
	Young In Chromass <sup>/1</sup>	YL6100	RS232	Ready
	Young In Chromass <sup>/1</sup>	YL6500	LAN	Ready

### HPLC Systems (p/n A24)

	Producer	Name	Interface	Status
	Advion	Avant HPLC, Avant UHPLC	LAN	Ready
	Agilent	1100 LC, 1200 LC, 1260 Infinity, 1290 Infinity II (see list of particular components)	LAN - ICF	Ready
	Agilent	1100 system	GPIB, LAN	Ready

Agilent	1120 LC (G4286A, G4287A, G4288A, G4289A, G4290A), 1220 LC (G4286B, G4286C, G4287B, G4287C, G4288B, G4289B, G4290B, G4291B, G4291C, G4292B, G4292C, G4293B), 1220 VL (G4288C, G4289C, G4290C, G4293C, G4294B), 1260 Infinity II	LAN - ICF	Ready
Agilent	1200 system (selected modules only)	LAN	Ready
Alltesta <sup>/1</sup>	Analyzer	RS232	Testing
Analytical Technologies Limited <sup>/4</sup>	iUHPLC Series 3000Plus	RS232	Testing
Antec	ALEXYS	RS232	Ready
Antec <sup>/6</sup>	ROXY	RS232	Ready
Axcend <sup>/1</sup>	Focus LC	LAN - ICF	Testing
CoruiTech <sup>/1,7</sup>	Rainbow, RainbowC	LAN	Testing
CVC Technologies <sup>/4</sup>	Atima	LAN	Testing
Dalian Elite <sup>/1,3</sup>	EClassical 3100, iChrom 5100, SOPTOP 1620A Plus	LAN	Ready
New Dalian Elite <sup>/1,3</sup>	EClassical 3200	LAN	Testing
Esensing <sup>/4</sup>	MassChrom 1299	RS232 + LAN	Testing
Hanon Instruments <sup>/4</sup>	LC7000, LC7300	LAN/RS232	Ready
Haosi Bio <sup>/1</sup>	ARIES LC 2400	RS485	Testing
Hitachi <sup>/8,9</sup>	Chromaster	USB	Ready
Hitachi <sup>/8,9,10</sup>	Primaide	USB	Ready
Ingos <sup>/1</sup>	LC 5000	LAN	Testing
Interlab <sup>/9</sup>	MAESTRO	USB	Ready
Knauer <sup>/1</sup>	Azura, BlueShadow, Smartline, WellChrom	RS232	Ready
PerkinElmer <sup>/1</sup>	Flexar	RS232 + LAN	Ready
PerkinElmer	NexSAR	RS232	Ready
RIGOL <sup>/1</sup>	L-3000	RS232	Testing
Shimadzu <sup>/10</sup>	LC-10, LC-20 Prominence	RS232 or LAN + corresp. controller (see HPLC Other)	Ready
Shimadzu <sup>/1,2,5,10</sup>	Nexera LC-40	LAN + corresp. controller (see HPLC Other)	Ready
Spark	LC1299, LC1299 Plus	RS232, USB or LAN	Testing
SSI	B2300, VersaGrad, VersaGrad UHP	RS232 + LC UNI	Ready
Sykam <sup>/1</sup>	S155, S500, S600	RS232	Ready
Watrex <sup>/1</sup>	Streamline	RS232 + USB	Ready
Welch	WiSys 5000	RS232 or LAN	Ready
Young In Chromass <sup>/1</sup>	ChroZen	LAN	Ready
Young In Chromass <sup>/1</sup>	YL9100, YL9300	LAN/RS232	Ready

## HPLC Pumps (p/n A24)

Producer	Name	Interface	Status
Advion	Avant Pump	LAN	Testing
Agilent	1100 Binary, 1100 Isocratic, 1100 Quaternary	GPIB, LAN	Ready
Agilent	1200 Binary, 1200 Isocratic, 1200 Quaternary	LAN	Ready

Agilent	Binary (G1312A, G1312B, G1312C, G1376A, G2226A, G4220A, G4220B, G7112B, G7120A, G7132A, G7161A, G7161B), Isocratic (G1310A, G1310B, G1361A, G7110B), Quaternary (G1311A, G1311B, G1311C, G4204A, G5611A, G5654A, G7104A, G7104C, G7111A, G7111B) (all including selected pump valve clusters)	LAN - ICF	Ready
Agilent	Binary (G4302A, G4782A) (all including selected pump valve clusters)	LAN - ICF	Testing
Alltech/Grace	301, 426, 626, 726	RS232 - LC UNI	Ready
Analytical Technologies Limited	ALC2010, ALC2100, COLUMN-WASH	RS232 - LC UNI	Ready
Analytical Technologies Limited <sup>/4</sup>	P-3210U, PB-3220U, PQ-3245U	RS232	Testing
ANALYTIK Jena <sup>/4</sup>	PQ LC HPLC Pump 1125, PQ LC HPLC Pump 1130, PQ LC HPLC Pump 1132	RS232	Ready
Antec	LC100	RS232	Ready
Antec <sup>/4</sup>	LC110	RS232	Ready
Antec <sup>/4</sup>	LC110S	RS232 or LAN	Ready
ASI	500, 501, 520	RS232 - UNI Ruby	Ready
Beckman/Altex	110A, 110B, 114	Zebrick	Ready
Bio-Rad	1350	Zebrick	Ready
Bischoff	2250	RS232	Ready
Bischoff	3350	Zebrick	Ready
Chrom Tech	ISO-100, ISO-1000, ISO-1500, ISO-2000	RS232	Ready
Chromophor	Chromopeak 2010	RS232 - UNI Ruby	Ready
Chromsystems	CLC 300	Zebrick	Ready
New Chromsystems <sup>/4</sup>	CLC 320, CLC 340	RS232	Ready
Chromsystems <sup>/11</sup>	CLC 330	RS232	Ready
CQS <sup>/4</sup>	Climax 150 Pump, Climax 155 Pump, Climax S 1130	RS232	Ready
Ecom <sup>/1</sup>	Alpha 05, Alpha 10, Alpha 100, Alpha 250, Alpha 50, Beta 10, Beta 50, IOTA-250, IOTA-300, IOTA-400, IOTA-S-10, IOTA-S-50, IOTA-S-100, IOTA-S-200, IOTA-S-300, KAPPA10PP, LCP 4050, LCP 4100	RS232	Ready
Ecom	Alpha 10, Alpha 100, Alpha 50, Beta 10, Beta 50, KAPPA10, LCP 4100	RS232 - LC UNI	Ready
Ecom <sup>/1</sup>	ECP2002, ECP2010, ECP2011, ECP2050, ECP2100, ECP2300, ECP201L	RS232 or LAN	Ready
Ecom	LCP 4000, LCP 4020	Zebrick	Ready
Esensing	SPH1299	RS232, USB or LAN	Testing
Flom	301M, AI-12 series, UI-22 (UI series)	RS232 - UNI Ruby	Ready
Flux - Thermo <sup>/1</sup>	Allegro, Rheos 2000, Rheos 2200	RS232	Ready
Futecs <sup>/1</sup>	P-6000	RS232 - UNI Ruby	Ready
Gilson	302, 303, 305, 306, 307	GSIOC	Ready
Gynkotek	M300CS, M480	Zebrick	Ready
Hanon Instruments <sup>/4</sup>	LC7010, LC7011, LC7012	LAN	Ready
Hitachi <sup>/8,9</sup>	Chromaster 5110, 5160	USB	Ready
Hitachi	L-6000	via L-6200	Ready
Hitachi	L-6200, L-6210	RS232	Ready

Hitachi <sup>/8,9,10</sup>	Primaide 1110	USB	Ready
JASCO	PU-880	Zebrick	Ready
Knauer <sup>/1</sup>	10P/20P, 40P, 80P, P2.1S/P4.1S, PLATINblue P-1, S100, Smartline 1050	RS232 or LAN	Ready
Knauer <sup>/1</sup>	K-1000, K-1001, K-120, K-1800, Prep Pump 1800, K-501, Smartline S1000	RS232	Ready
Knauer	K-500, K-501, M-64	Zebrick	Ready
Knauer <sup>/1</sup>	P2.1L, P6.1L, P8.1L	LAN	Ready
Knauer	Smartline S1000	RS232 - LC UNI	Ready
Konik <sup>/4</sup>	560 Gradient Pump, 560 Isocratic Pump	RS232	Ready
Konik <sup>/4</sup>	580 Pump	RS232 or LAN	Ready
Kontron	320, 322, 325	RS232 - LC UNI	Testing
Kontron	420, 422, 525	RS232 - LC UNI	Ready
LKB - Amersham	LKB 3500, P-50, P-500	Zebrick	Ready
PerkinElmer <sup>/1</sup>	Flexar Binary LC Pump, Flexar Quaternary LC Pump	RS232	Ready
PerkinElmer	NexSAR pump	RS232 - UNI Ruby	Ready
Postnova Analytics	PN1130	Zebrick	Ready
Recipe	GP3000, IP3000	RS232	Ready
RIGOL <sup>/1</sup>	L-3200	RS232	Testing
Schambeck <sup>/4</sup>	S 9425	RS232	Ready
Schambeck	SDS 9404, SDS 9414 I	Zebrick	Ready
Schambeck	SFD 2100	RS232	Ready
Separlab <sup>/1</sup>	Separtrix PP03	RS232	Ready
Shimadzu	LC-10AD, LC-10ADvp, LC-10Ai, LC-10AS, LC-10AT, LC-10ATvp, LC-20AB, LC-20AD, LC-20ADXR, LC-20AS, LC-20AT, LC-6AD, LC-8A	Shimadzu controller (see HPLC Other)	Ready
Shimadzu	LC-10ADvp, LC-10ATvp	OPT-USB	Ready
Shimadzu	LC-20AB, LC-20AD, LC-20ADXR, LC-20AS, LC-20AT (in LC-10 emulation mode only)	OPT-USB	Ready
Shimadzu <sup>/1,2,5</sup>	LC-40B X3, LC-40B XR, LC-40D, LC-40D X3, LC-40D XR, LC-40D XS	LAN + corresp. controller (see HPLC Other)	Ready
Shimadzu	LC-6A	Zebrick	Ready
Spark	SPH1240	RS232, USB or LAN	Ready
Spark	SPH1299	RS232, USB or LAN	Testing
SSI	150, 1500, HF 300, LD-Class, LS-Class, LU-Class, M1-Class, Mighty-Mini, MX-Class, PR-Class, Prep 100, Prep 300, Q-Grad, Series I, Series II, Series III, UHP, VersaGrad UHP	RS232 - UNI Ruby	Ready
SSI	222D	Zebrick	Ready
SunChrom <sup>/4</sup>	SunFlow 2010	RS232	Ready
Sykam	S1021, S1521, S1122	Zebrick	Ready
Sykam <sup>/1</sup>	S1125, S1130, S1132	RS232	Ready
Sykam	S2100	RS232	Ready
Techlab	Minipump1	RS232 - UNI Ruby	Ready
Teledyne	2300	Zebrick	Ready
Teledyne SSI	ReaXus LD-Class, ReaXus LS-Class, ReaXus LU-Class, ReaXus M1-Class, ReaXus MX-Class, ReaXus PR-Class	RS232 - UNI Ruby	Ready
TSP	Constametric III	Zebrick	Ready
Unicam	PU 4015	Zebrick	Ready

	Unimicro <sup>/1</sup>	EasySep-3030 Pump	RS232	Testing
	Varian	212-LC	RS232 - UNI Ruby	Ready
	Waters	6000A, M 45, 501, 510, 515	Zebrick	Ready
	Watrex	DeltaChrom P200, DeltaChrom SDS20, DeltaChrom SDS30	RS232 - LC UNI	Ready
	Watrex	Mighty-Mini	RS232 - UNI Ruby	Ready
	Watrex <sup>/1</sup>	Streamline P1m, Streamline P1s	USB	Ready
New	Welch <sup>/4</sup>	WelNova 6110 Isocratic pump, WelNova 6120 HPG pump, WelNova 6140 LPG pump	LAN	Ready
	Young In Chromass <sup>/1</sup>	ChroZen Binary Pump, YL9110, YL9111, YL9112	LAN	Ready
	Young In Chromass <sup>/1</sup>	ChroZen Pump	LAN	Testing
	Young In Chromass	ChroZen UHPLC Pump	LAN	Testing
		Any pump with flow controlled by voltage or frequency	Zebrick	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 MWD, 1100 RID, 1100 VWD	GPIB, LAN	Ready
	Agilent <sup>/12</sup>	1200 MWD	LAN	Ready
	Agilent	1200 VWD	LAN	Ready
	Agilent	1200: ELSD	RS232	Ready
	Agilent	ELSD (G4218A, G4260A, G4260B, G4261A, G4261B, G7102A), FLD (G1321A, G1321B, G1321C, G7121A, G7121B), MWD (G1365A, G1365B, G1365C, G1365D, G7165A), RID (G1362A, G7162A, G7162B), VWD (G1314A, G1314B, G1314C, G1314D, G1314E, G1314F, G7114A, G7114B)	LAN - ICF	Ready
	Alltech/Grace	3300 ELSD	LAN	Ready
	Analytical Technologies Limited <sup>/4</sup>	ASPD2600	RS232	Ready
	Analytical Technologies Limited <sup>/4</sup>	UVD-3500U	RS232	Testing
	ANALYTIK Jena <sup>/1</sup>	PlasmaQuant MS	LAN	Testing
	Antec	DECADE Elite, DECADE Lite	USB or LAN	Ready
	Antec	DECADE II, DECADE II MD, DECADE II SDC	RS232	Ready
	Antec <sup>/6</sup>	ROXY Potentiostat	RS232	Ready
New	Chromsystems <sup>/4</sup>	CLC 420	RS232	Ready
	CoruiTech <sup>/1,7</sup>	Rainbow detector	USB	Testing
	CQS <sup>/4</sup>	Climax 150 IC, Climax 150 UV, Climax 155 IC, Climax S 3250 UV/Vis detector	RS232	Ready
	Ecom <sup>/1</sup>	Apatite, Flash 06 DAD, Flash 06 Single, Flash 10 DAD, Malachite, Opal, Sapphire, TOYFIX	RS232	Ready
	Ecom <sup>/1</sup>	ECD2600, ECD2800	RS232 or LAN	Ready
	Ecom	RI2012	RS232 - UNI Ruby	Ready
	Ecom	Topaz	RS232	Ready
	Elysia-raytest <sup>/1,13</sup>	Gabi Nova	USB or LAN	Testing

Elysia-raytest <sup>/1,13</sup>	Gabi Star Radiodetector, Ramona Star	RS232	Ready
Elysia-raytest <sup>/1,13</sup>	POMO Radiodetector	USB - UNI Ruby	Ready
ERC	RefractoMax 520 Series	RS232 - UNI Ruby	Ready
ESA <sup>/14</sup>	Coulochem III	USB	Ready
Esensing <sup>/4</sup>	ELSD	RS232	Testing
Esensing <sup>/4</sup>	MCH UV	LAN	Ready
Futechs <sup>/1</sup>	CD-6000, RI-6000	RS232 - UNI Ruby	Ready
Gilson	PrepELS™ II	RS232	Ready
Hanon Instruments <sup>/4</sup>	LC7020	LAN	Ready
Hanon Instruments <sup>/4</sup>	LC7070, LC7081	RS232	Ready
Hi Corporation	RI2012	RS232 - UNI Ruby	Ready
Hitachi <sup>/8,9</sup>	Chromaster 5410, 5420, 5440, 5450	USB	Ready
Hitachi <sup>/8,9,10</sup>	Primaide 1410	USB	Ready
Interlab	MAESTRO ELSD	RS232	Ready
Interlab	Omega FLD, Omega UV-VIS	USB	Ready
Japan Analytical Industry Co., LTD. <sup>/1</sup>	RI-700II	RS232	Ready
JASCO	FP-4020, FP-4025	RS232	Ready
Knauer <sup>/1</sup>	10D, 40D, 50D, CM2.1S, PLATINblue MW-1, S2520 VWD, S2550 VWD, UVD2.1L, UVD2.1S	RS232 or LAN	Ready
Knauer <sup>/1</sup>	Conductivity Monitor 2900, K-2600, S200 UV, S2300 RID, S2400 RID, Smartline S2500 VWD, WellChrom RI (K-2300, K-2301, K-2400, K-2401), WellChrom UV (K-2000, K-2001, K-2500, K-2501)	RS232	Ready
Knauer <sup>/1</sup>	MWD2.1L, RID2.1L	LAN	Ready
Knauer <sup>/1,15</sup>	S2510	RS232	Ready
Konik <sup>/4</sup>	560 UV-Vis, 560/580 DAD	RS232	Ready
Konik	580 ELSD	RS232	Ready
Konik	580 RI	RS232 - UNI Ruby	Ready
Konik <sup>/4</sup>	580 UV-Vis	RS232 or LAN	Ready
Kontron	432	A/D converter + RS232 - UNI Ruby	Ready
Marion Research	Fixed Wavelength detector (255, 280, 415 nm)	USB	Ready
PerkinElmer <sup>/1</sup>	Flexar FX-UV/Vis, Flexar UV/Vis	RS232	Ready
PerkinElmer <sup>/1,10</sup>	NexION 1000, NexION 2000, NexION 300, NexION 350, NexION 5000	LAN	Ready
Recipe	EC6000	RS232 - UNI Ruby	Ready
Recipe <sup>/4</sup>	FW3000, UV3000	RS232	Ready
RIGOL <sup>/1</sup>	L-3500	RS232	Testing
RIGOL	L-3530	RS232	Ready
Runge <sup>/1</sup>	mikron 31, mikron 81	USB	Ready
Schambeck	RI 2000, RI 2012, S 2020, S 2030	RS232 - UNI Ruby	Ready
Schambeck <sup>/4</sup>	S 4245, ZAM 3000, ZAM 4000	RS232	Ready
Schambeck	S3210, S3240	RS232	Testing
Sedere	Sedex 100LT, Sedex 90LT, Sedex FP, Sedex LC	RS232 or USB	Ready
Sedere <sup>/16</sup>	Sedex 80LT	RS232	Ready
Sedere	Sedex 85LT	RS232	Ready
Semba Biosciences <sup>/4</sup>	Octave 4X, Octave 4XE	RS232	Ready

Shimadzu <sup>/1,2,5</sup>	CDD-10Avp, RF-20A, RF-20Axs, RID-20A, SPD-40, SPD-40V	LAN + corresp. controller (see HPLC Other)	Ready
Shimadzu	ELSD-LTII	RS232	Ready
Shimadzu	RF-10A, RF-10Axl, RF-20A, RF-20Axs, RID-10A, SPD-10A, SPD-10Ai, SPD-10AV, SPD-10AVi, SPD-10Avp, SPD-10AVvp, SPD-20A, SPD-20AV	Shimadzu controller (see HPLC Other)	Ready
Shimadzu <sup>/4</sup>	RF-10Axl, RF-20Axs	RS232	Ready
Shimadzu <sup>/4,17</sup>	RF-20A	RS232	Ready
Shodex	RI-101, RI-102, RI-104	RS232 - UNI Ruby	Ready
Shodex	RI-501, RI-501EX, RI-502, RI-504	LAN - UNI Ruby	Ready
Softa	1300, 1400, 200S, 300S, 400	RS232	Ready
SunChrom	RefractoFlow 2030	RS232	Ready
SunChrom <sup>/4</sup>	SpectraFlow 2020	RS232 or LAN	Ready
Sykam	RI2000, S3585, S3590	RS232 - UNI Ruby	Ready
Sykam <sup>/1</sup>	S150, S3120, S3245, S3250	RS232	Ready
Sykam	S3210, S3240	RS232	Testing
Unimicro <sup>/1</sup>	EasySep-3030 UV Detector, EasySep-3030 UV/Vis Detector, UNIEX-7700 ELSD	RS232	Testing
VICI - Valco <sup>/1</sup>	TCD 3	RS232	Ready
Watrex <sup>/4</sup>	Streamline IC1	USB	Ready
Watrex <sup>/4</sup>	Streamline UV1	RS232	Ready
Young In Chromass <sup>/3,14</sup>	ChroZen HPLC FLD, YL9140 FLD	USB	Ready
Young In Chromass <sup>/1</sup>	ChroZen HPLC RID-E, YL9170, YL9180	RS232	Ready
Young In Chromass <sup>/1</sup>	ChroZen HPLC-A UVD, ChroZen UHPLC UVD, YL9120	LAN	Ready
Young In Chromass	ChroZen RID, ChroZen UHPLC RID, YL9172 RID	LAN - UNI Ruby	Ready
Young In Chromass <sup>/1</sup>	ChroZen UVD	LAN	Testing
Young In Chromass	YL9181	RS232	Ready

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

Producer	Name	Interface	Status
Advion <sup>/4</sup>	Avant PDA Detector	USB or LAN	Ready
Agilent	1100: DAD, FLD	GPIB, LAN	Ready
Agilent <sup>/12</sup>	1200: DAD, FLD	LAN	Ready
Agilent	FLD (G1321A, G1321B, G1321C, G7121A, G7121B), G1315A, G1315B, G1315C, G1315D, G4212A, G4212B, G7115A, G7117A, G7117B, G7117C	LAN - ICF	Ready
Analytical Technologies Limited <sup>/4</sup>	DAD-3520U	RS232	Testing
ANALYTIK Jena <sup>/4</sup>	PQ LC PDA Detector	LAN	Testing
Chromophor <sup>/4</sup>	PDA Detector	LAN	Testing
CQS <sup>/4</sup>	Climax S 3345 PDA Detector, Climax S 3350 PDA Detector	LAN	Testing
Dalian Elite <sup>/1,3</sup>	iChrom 5100 PDA	LAN	Testing
Ecom <sup>/1</sup>	BABY18DAD, TOY14DAD, TOY18DAD	RS232 or LAN	Ready
Ecom <sup>/1</sup>	ECDA2000, ECDA2800	USB or LAN	Ready

ECOM <sup>/1</sup>	Flash 12 DAD, FLASH 14 DAD, TOYDAD 400, TOYDAD 400 L, TOYDAD 600, TOYDAD 600 L, TOYDAD 800, TOYDAD 800 L	RS232	Ready
Esensing <sup>/4</sup>	MCH PDA	LAN	Ready
Hanon Instruments <sup>/4</sup>	LC7060	LAN	Ready
Hitachi <sup>/8,9</sup>	Chromaster 5430	USB	Ready
Hitachi <sup>/8,9,10</sup>	Primaide 1430	USB	Ready
Knauer <sup>/1</sup>	DAD2.1L, DAD6.1L, K-2700, K-2800, PLATINblue PDA -1, S2800 PDA, S2850 PDA	LAN	Ready
Knauer <sup>/1</sup>	Smartline S2600 MWD	RS232	Ready
Konik <sup>/4</sup>	580 PDA	USB or LAN	Ready
PerkinElmer <sup>/1</sup>	Flexar Plus PDA	LAN	Ready
Prince <sup>/1</sup>	Next DAD	RS232	Testing
RIGOL <sup>/1</sup>	L-3520	USB or LAN	Testing
Schambeck <sup>/4</sup>	S 4345, S 4350	LAN	Testing
Schambeck	S3210, S3240	RS232	Testing
Shimadzu	SPD-M10Avp, SPD-M20A	Shimadzu controller (see HPLC Other)	Ready
Shimadzu <sup>/1,2,5</sup>	SPD-M30A, SPD-M40A	LAN + corresp. controller (see HPLC Other)	Ready
SunChrom <sup>/4</sup>	SpectraFlow 2050	USB or LAN	Ready
Sykam	S3210, S3240	RS232	Testing
Sykam <sup>/1</sup>	S3345, S3350	LAN	Testing
Watrex <sup>/4</sup>	Streamline PDA	LAN	Testing
Young In Chromass <sup>/1</sup>	ChroZen HPLC-A PDA, ChroZen UHPLC PDA, YL9160	LAN	Ready
Young In Chromass <sup>/1</sup>	ChroZen PDA	LAN	Testing

### LC-MS Detectors (p/n A38 + p/n A24)

Producer	Name	Interface	Status
Advion	Expression CMS	USB	Ready
Gilson	Verity 1920	USB	Ready
Konik	Q4 LCMS	USB	Ready
Microsaic	4000 MiD, 4500 MiD	LAN	Ready
QuadroCore <sup>/1</sup>	MCore	LAN	Testing
Young In Chromass	YL9900	USB	Ready

### GC-MS Detectors (p/n A38 + p/n A23)

Producer	Name	Interface	Status
QuadroCore <sup>/1</sup>	MCore	LAN	Testing
Shanghai Sunny Hengping Scientific Instrument <sup>/1</sup>	MSQ8100	LAN	Testing
Young In Chromass	ChroZen GC/MS, YL6900	LAN	Testing

### GC-MS TOF Detectors (p/n A37 + p/n A23)

Producer	Name	Interface	Status
Markes International	BenchTOF	LAN	Ready



## HPLC Other (p/n A24)

Producer	Name	Interface	Status
Bronkhorst <sup>/4</sup>	mini Cori-Flow	RS232	Ready
ECOM	Panda-30 HID	USB	Ready
Knauer <sup>/1</sup>	ASM2.1L, ASM2.2L, IFU 2.1 LAN	LAN	Ready
Knauer <sup>/1</sup>	I-Box, IF2, Manager 40M, Smartline Manager 5000	RS232	Ready
Knauer <sup>/1</sup>	IFU 2.1	USB	Ready
RotaChrom <sup>/1</sup>	rCPC	LAN	Testing
Shimadzu	CBM-20A, CBM-20Alite (for LC-10 or LC-20 system)	RS232 or LAN	Ready
Shimadzu <sup>/1,2,5</sup>	CBM-40, CBM-40 Lite, SCL-40 (for Nexera system)	LAN	Ready
Shimadzu	SCL-10Avp (for LC-10 system)	RS232	Ready
SISw	SSI pumps USB interface	USB - UNI Ruby	Ready
SISw <sup>/1</sup>	Systec Degasser Watchdog, USB pH monitor	USB - UNI Ruby	Ready
Unimicro <sup>/1</sup>	HVPS	RS232	Testing

## GC Accessories (p/n A23)

Producer	Name	Interface	Status
Faculty of Science, Charles University in Prague	GCxGC Modulator	RS232	Ready

## Autosamplers (p/n A26)

Producer	Name	Interface	Status
Advion	Avant Autosampler	LAN	Ready
Agilent	1100 ALS, 1100 TAS	GPIO, LAN	Ready
Agilent	1200 ALS, 1200 TAS	LAN	Ready
Agilent	6850 ALS	through GC6850	Ready
Agilent	7650, 7683A, 7683B, 7693A	LAN - ICF	Ready
Agilent	7673, 7673 II	RS232	Ready
Agilent	7673B, 7673C, 7697A, 8697, ALS 6850, G1888	LAN - ICF	Testing
Agilent	7683	through GC6890	Ready
Agilent	7683, 7693	through GC7890	Ready
Agilent	G1313A, G1327A, G1329A, G1329B, G1367A, G1367B, G1367C, G1367D, G1367E, G1368A, G1377A, G1378A, G1389A, G4226A, G5667A, G5668A, G7129A, G7129B, G7129C, G7137A, G7157A (all including thermostat (G1330A, G1330B))	LAN - ICF	Ready
Agilent	G2258A, G2260A, G4227A, G4303A, G4767A, G7158B, G7167A, G7167B, G7169B (all including thermostat (G1330A, G1330B))	LAN - ICF	Testing
Agilent <sup>/4</sup>	PAL3 LSI 85 (G7366A), PAL3 RSI 120 (G7368A), PAL3 RSI 85 (G7367A), PAL3 RTC 120 (G7370A)	LAN - ICF	Testing
Alltech/Grace	570, 580	RS232	Ready
Ample Technology Center	ATC3000A, ATC3100A, ATC3200A	LAN	Ready
Analytical Technologies Limited <sup>/4</sup>	AS-3320U	RS232	Testing

Analytical Technologies Limited	AS2000	RS232	Ready
ANALYTIK Jena <sup>/4</sup>	PQ LC 5250, PQ LC 5300	RS232	Ready
Antec	AS 100	RS232	Ready
Antec <sup>/4</sup>	AS 110 Micro	RS232	Ready
Cetac	ASX-8000	USB	Ready
Chromsystems	CLC 200	RS232	Ready
Chromsystems <sup>/4</sup>	CLC 220	RS232	Ready
CQS <sup>/4</sup>	Climax 150 AS, Climax S 5250, Climax S 5300	RS232	Ready
CTC Analytics	A200S	RS232	Ready
CTC Analytics	PAL (GC, LC, Combi), PAL-xt (LC-xt, HTC-xt, HTS-xt, HTX-xt, GC-xt, Combi-xt, Combi-xt extended)	RS232 or LAN	Ready
CTC Analytics	PAL LSI, PAL RSI, PAL RTC, PAL3 System	LAN	Testing
Dani	ALS1000	RS232	Ready
Dani <sup>/1,2</sup>	Master AS, Master DHS	RS232	Ready
Dani <sup>/1,2</sup>	Master SHS	RS232, USB or LAN	Ready
Dionamix <sup>/1</sup>	L-3320	RS232, USB or LAN	Testing
Eicom	AS-700	RS232, USB or LAN	Ready
ESA	542	RS232	Ready
Esensing	MCH Alias	RS232, USB or LAN	Ready
EST Analytical	AS120, Cobra	RS232	Ready
Hanon Instruments <sup>/4</sup>	LC7050	RS232	Ready
Hitachi <sup>/8,9</sup>	Chromaster 5210, Chromaster 5260, Chromaster 5280	USB	Ready
Hitachi <sup>/8,9,10</sup>	Primaide 1210	USB	Ready
HTA	2000H, 2000HT, 2100H, 2800T, 3000A, 3100A, 3200A, HT2000H, HT2000HT, HT2100H, HT2800T, HT3000A, HT3100A, HT3200A, HT4000L	LAN	Ready
HTA <sup>/1</sup>	HT1500L	USB	Ready
HTA	HT200H, HT250D, HT280T (without SPME), HT300A, HT310A, HT300LV, HT310LV, HT300L, HT310L, HT800L	RS232	Ready
Knauer	AS 3800, AS 3900, Optimas	RS232	Ready
Knauer	AS 6.1L	RS232 or LAN	Ready
Knauer <sup>/1</sup>	PLATINblue AS-1	RS232 or LAN	Ready
Konik	AS 580	RS232, USB or LAN	Ready
Kontron	360, 460, 465, 560	RS232 - UNI Ruby	Ready
PerkinElmer <sup>/1</sup>	Flexar AS	RS232	Ready
PerkinElmer	NexSAR Inert HPLC Autosampler	RS232, USB or LAN	Ready
Postnova Analytics	PN5300	RS232	Ready
Recipe	AS3000, AS5000	RS232	Ready
Schambeck <sup>/4</sup>	S 6250, S 6300	RS232	Ready
Schambeck	S5200	RS232	Ready
Shimadzu	AOC-20i, AOC-20s, AOC-20d	RS232	Ready
Shimadzu <sup>/1,5</sup>	AOC-20i, AOC-20s, AOC-20d	RS232 - ICF	Ready
Shimadzu	AOC-5000 Plus	RS232 or LAN	Ready
Shimadzu	SIL-10ADvp, SIL-10AF, SIL-10AXL, SIL-20A, SIL-20AC, SIL-20ACHT, SIL-20ACXR, SIL-20AHT, SIL-20AXR, SIL-HTA, SIL-HTC	Shimadzu controller (see HPLC Other)	Ready

	Shimadzu <sup>/1,2,5</sup>	SIL-40, SIL-40 XR, SIL-40C, SIL-40C X3, SIL-40C XR, SIL-40C XS	LAN + corresp. controller (see HPLC Other)	Ready
	Spark	Alias, Alias UHPLC (including User Program)	RS232, USB or LAN	Ready
	Spark	Basic Marathon (Plus, XT), Endurance, Midas, Triathlon	RS232	Ready
	Spark	Integrity	RS232, USB or LAN	Ready
	Sykam	S5200	RS232	Ready
	Sykam <sup>/1</sup>	S5250, S5300	RS232	Ready
	VICI - Valco	Multi-position valve used as AS	RS232 - UNI Ruby	Ready
	Watrex <sup>/4</sup>	Streamline AS1, Streamline AS2	RS232	Ready
New	Welch	WelNova 6210	RS232, USB or LAN	Ready
	Young In Chromass <sup>/1</sup>	ChroZen AS, YL9150 Plus	LAN	Testing
	Young In Chromass	ChroZen UHPLC ALS, ChroZen3000A, ChroZen3100A, ChroZen3200A, YL2000H, YL2000HT, YL2100H, YL3000A, YL3100A, YL3200A	LAN	Ready
	Young In Chromass <sup>/1</sup>	YL3050A	RS232	Testing
	Young In Chromass <sup>/4,18</sup>	YL9150	RS232	Ready
	Young In Chromass	YL9151	RS232	Ready
		Any autosampler with the Ready input and Inject output (Inject marker)	I/O device	Ready

## HPLC Autosampler Accessories (p/n A26)

Producer	Name	Interface	Status
R-Biopharm	RIDACREST	RS232, USB or LAN	Ready
Spark	ACE, HPD, Symbiosis	RS232, USB or LAN	Ready

## HPLC Column Ovens (p/n A24)

Producer	Name	Interface	Status
Advion	Avant Column Oven	LAN	Ready
Agilent	1100 TCC	GPIB, LAN	Ready
Agilent	1200 TCC	LAN	Ready
Agilent	G1316A, G1316B, G1316C, G7116A, G7116B, G7130A	LAN - ICF	Ready
Analytical Technologies Limited <sup>/4</sup>	CO-3400U	RS232	Testing
ANALYTIK Jena <sup>/4</sup>	PQ LC 4115	RS232	Ready
Chromsystems <sup>/4</sup>	CLC 360	RS232	Ready
Cluzeau Info-Labo	Croco-CIL, Gecko-2000, Igloo-CIL	RS232 - UNI Ruby	Ready
CQS <sup>/4</sup>	Climax S 4115, Climax S 4120	RS232	Ready
Ecom <sup>/1</sup>	ECO2080, ECO2099	RS232 or LAN	Ready
Ecom	LCO 102	RS232 - UNI Ruby	Ready
Esensing	Mistral	RS232	Ready
Futecs <sup>/1</sup>	CT-6000	RS232 - UNI Ruby	Ready
Hanon Instruments <sup>/4</sup>	LC7030	LAN	Ready
Hitachi <sup>/8,9</sup>	Chromaster 5310, Chromaster Ultra RS 6310	USB	Ready
Hitachi <sup>/8,9,10</sup>	Primaide 1310	USB	Ready
Knauer <sup>/1</sup>	CT2.1, PLATINblue T-1, S4000, S4050	RS232 or LAN	Ready

Konik <sup>/4</sup>	560 Oven	RS232	Ready
Konik <sup>/4</sup>	580 Oven	RS232 or LAN	Ready
PerkinElmer <sup>/1</sup>	Flexar LC Column Oven	RS232	Ready
PerkinElmer	NexSAR Column Oven	RS232	Ready
R-Biopharm	RIDACREST Column Oven	RS232	Ready
Recipe	CH3000	RS232 - UNI Ruby	Ready
Recipe	HT4000	RS232 or LAN	Ready
RIGOL <sup>/1</sup>	L-3400	RS232	Testing
Schambeck <sup>/4</sup>	S 5120	RS232	Ready
Shimadzu	CTO-10A, CTO-10AC, CTO-10ACvp, CTO-10ASvp, CTO-10Avp, CTO-20A, CTO-20AC	Shimadzu controller (see HPLC Other)	Ready
Shimadzu <sup>/1,2,5</sup>	CTO-30A, CTO-40C, CTO-40S	LAN + corresp. controller (see HPLC Other)	Ready
Spark	Mistral	RS232 or LAN	Ready
SSI	605 COC	RS232 - UNI Ruby	Ready
SunChrom <sup>/4</sup>	SunTherm 2070	RS232 or LAN	Ready
Sykam <sup>/1</sup>	S4115, S4120	RS232	Ready
Techlab	K-7	RS232 - UNI Ruby	Ready
Thermotechnic Products <sup>/4</sup>	JetStream	RS232	Ready
Unimicro <sup>/1</sup>	EasySep-3030 Thermostat, Unimicro Thermostat	RS232	Testing
VICI - Valco <sup>/1</sup>	Fast Temperature Programmer	RS232	Ready
Watrex	CTC 100	RS232 - UNI Ruby	Ready
Watrex <sup>/1</sup>	Streamline CT1	USB	Ready
Young In Chromass <sup>/1</sup>	ChroZen Column Oven	LAN	Testing
Young In Chromass <sup>/1</sup>	ChroZen HPLC-A CC, ChroZen UHPLC CC, YL9130	LAN	Ready

## Fraction collectors (p/n A24)

Producer	Name	Interface	Status
Advantec	CHF122SC	RS232 - UNI Ruby	Ready
Agilent	G1364A, G1364B, G1364C, G1364D, G1364E, G1364F, G5664A, G5664B, G7159B, G7166A	LAN - ICF	Testing
Bio-Rad	BioFrac	A/D converter + UNI Ruby	Ready
Büchi <sup>/4,15</sup>	C-660	RS232	Ready
Ecom <sup>/1</sup>	ECF2096	RS232 or LAN	Ready
Ecom	ECV2010	RS232 - UNI Ruby	Ready
Gilson	203B, 204	RS232 - UNI Ruby	Ready
Japan Analytical Industry Co., LTD. <sup>/1</sup>	FC-7000	RS232	Ready
Knauer <sup>/1,15</sup>	S3000, S3050	RS232 or LAN	Ready
Labomatic Instruments <sup>/4,15</sup>	Labocol VARIO-4000, Labocol VARIO-4000 Plus	RS232 or LAN	Ready
LKB Amersham	Frac100	A/D converter + UNI Ruby	Testing
Rheodyne	MX Series II valves used as FC	USB	Ready
Separlab <sup>/1</sup>	Separflow FC	RS232	Ready
Teledyne	FOXY 200, FOXY Jr., FOXY R1, FOXY R2	RS232 - UNI Ruby	Ready
Teledyne <sup>/4,15</sup>	FOXY Jr.	RS232	Ready

Teledyne <sup>/4,15</sup>	FOXY R1, FOXY R2	RS232 or LAN	Ready
VICI - Valco	Multi-position valve used as FC	RS232 - UNI Ruby	Ready
Waters	Fraction Collector II	RS232 - UNI Ruby	Ready
Watrex	DeltaChrom FC 500	A/D converter + UNI Ruby	Ready
Watrex <sup>/1</sup>	StreamLine FC	USB - UNI Ruby	Ready
Young In Chromass	YL FC1, YL FC2	RS232 - UNI Ruby	Ready
	Any fraction collector using the Next and Collect/Waste events	Clarity-controlled device with 2 TTL outputs (INT7, etc.) + UNI Ruby	Ready

## Valves (p/n A24 or A23)

	Producer	Name	Interface	Status
	Agilent	G1156A, G1157A, G1158A, G1158B, G1159A, G1160A, G1162A, G1163A, G1170A, G4243A, G7170B, G9322A	LAN - ICF	Testing
	ANALYTIK Jena <sup>/4</sup>	PQ LC 6510	RS232	Ready
	Chromsystems <sup>/4</sup>	CLC 230	RS232	Ready
New	ECOM <sup>/1</sup>	ECVA2000	RS232, USB or LAN	Testing
	Knauer <sup>/1</sup>	K-2, K-6, K-12, K-16, V2, V6, V12, V16, V2.1S, VU4.1	RS232 or LAN	Ready
	PerkinElmer	NexSAR Switching valve	RS232	Ready
	Rheodyne	LabPro Series valves	RS232 - UNI Ruby	Ready
	Rheodyne	MX Series II valves	USB	Ready
	Rheodyne	Titan Series valves	RS232	Ready
	Shimadzu	FCV-10AL, FCV-10ALvp, FCV-11AL, FCV-11ALS, FCV-15AL, LPGE Unit (all through selected LC-10/20 pumps only)	Shimadzu controller (see HPLC Other)	Ready
	Shimadzu	FCV-12AH, FCV-14AH (all through selected LC-20 column ovens only)	Shimadzu controller (see HPLC Other)	Ready
	Sykam <sup>/1</sup>	S6510	RS232	Ready
	Upchurch	V-2500	RS232	Ready
	VICI - Valco	Any valve mounted on two-position microelectric actuator, multiposition microelectric actuator or universal actuator.	RS232	Ready

## Amino Acid Analyzers

Producer	Name	Interface	Status
Ingos <sup>/1</sup>	AAA 500	LAN	Testing
Sykam <sup>/3</sup>	S4300 Amino Acid Reaction Module System	RS232	Ready
Sykam <sup>/1,3</sup>	S633	RS232	Testing

## Capillary Electrophoresis (p/n A24 + p/n A31)

Producer	Name	Interface	Status
CMP Scientific <sup>/4</sup>	ECE-001	LAN	Testing
Prince <sup>/1</sup>	Next CE	LAN	Testing

### Balances for Clarity EA Extension (p/n A30)

Producer	Name	Interface	Status
Mettler Toledo	AT, MT, UMT, Excellence	RS232	Ready
Sartorius	CP, GC and GP series, Cubis series, M2P	RS232	Ready

### Other (p/n A24 or A23)

Producer	Name	Interface	Status
DataApex	Column Usage Monitor	UNI Ruby	Ready

## Interface types:

RS232	=	Serial communication. Specify the type of the cable or instrument.
RS485	=	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.
GPIO	=	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
Zebrick	=	hardware: External LC Control device (4x D/A & 4x D/F converter), Part No.: B30
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.: U31, U32, U34
I/O device	=	hardware: Device capable of sending and receiving TTL signals governed by Clarity, for example any DataApex A/D converter. Part No.: U31, U32, U34
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
ICF	=	software: Agilent ICF control Libraries embedded in Clarity, Part No.: A24, A26, A29 depending on the type of controlled instruments

## 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 / connection key.*
3. *Exclusively available from the instrument's producer in the particular OEM version.*
4. *Developed by third party.*
5. *Exclusively available in selected territories through companies approved by Shimadzu company.*
6. *Only models with Firmware 5.11 and lower.*
7. *Exclusively available from standalone installer.*
8. *Exclusively available in selected territories through companies approved by Hitachi company.*
9. *One module in the system must have Interface Card installed.*
10. *Only limited number of these systems on one Clarity station is possible - see appropriate manual or product page.*
11. *With limitations, contact support@dataapex.com*
12. *The G1315A, G1315B, G1365A, G1365B sub-types only.*
13. *Selected models only - Check with Elysia-raytest company.*
14. *Limited to certain OS versions, see product page for details.*
15. *Available from Knauer company only (requires Knauer FRC option).*
16. *Only models with serial option - Check with Sedere company.*
17. *Only the detectors sold by Knauer company.*
18. *Only models with 840.100 firmware family (manufactured after 2010).*