Lucullus PIMS
Complete Software
Solution for Bioprocesses

SUPPORTED SYSTEMS AND DEVICES

04/2022

BIOREACTOR CONTROL UNITS (Page 1)

Supplier	Devicer	Integration	Connection type
Able-Biott	DPC-4 Controller	DA and Control	LAN (Modbus TCP/IP)
Applikon	ez-Control / ez2-Control	DA and Control	LAN (F-code)
	i-Control	DA and Control	LAN (F-code)
	in-Control	DA and Control	LAN (F-code)
	my-Control	DA and Control	LAN (F-code)
	SUB-Control	DA and Control	LAN (F-code)
	AppliFlex RB	DA and Control	LAN (F-code)
BBI Biotech	xCubio Bioreactor Control Units	DA and Control	LAN (OPC-DA)
Bioengineering	Bioreactor Control Units	DA and Control	LAN (JSON TCP/IP Proprietary device driver)
Bionet	F2 Scale-Up Bioreactor	DA and Control	LAN (OPC-UA)
Biostream	Biobench	DA and Control	LAN (OPC-XML)
Cytiva (GE Healthcare)	WAVE Bioreactor™ Systems	DA and Control	LAN (OPC-DA)
	Xcellerex XDR Systems	DA and Control	LAN (OPC-DA)
Distek	BIOne	DA and Control	LAN (OPC-UA or -DA)
Eppendorf (DASGIP / New Brunswick™)	DASGIP® Parallel Bioreactor Systems	DA and Control	LAN (OPC-DA)
	DASbox® Mini Bioreactor System	DA and Control	LAN (OPC-DA)
	BioBlu® and BioFlo®	DA and Control	Serial
	CelliGen®	DA and Control	Serial, OPC
	SciVario® twin	DA and Control	LAN (OPC-DA)

04/2022

BIOREACTOR CONTROL UNITS (Page 2)

Supplier	Devicer	Integration	Connection type
Thermo Fisher Scientific (Finesse Solutions)	G3Lab™ Controller	DA and Control	LAN (OPC-DA)
Frings	Proreact Bioreactor Control Units	DA and Control	LAN (OPC-DA)
Infors HT	Labfors and Techfors	DA and Control	LAN (OPC-XML)
	Minifors	DA and Control	LAN (OPC-UA)
	Sixfors	DA and Control	Serial
PALL	iCELLis® Nano and 500+ Bioreactor	DA and Control	LAN (OPC-DA)
PBS Biotech	Vertical-Wheel™ Bioreactors	DA and Control	LAN (JSON TCP/IP Proprietary device driver)
Pharmatec	BIOREACTOR	DA and Control	LAN
Sartorius	ambr® 15 and ambr® 250	DA (and Control)	LAN (OPC-DA)
	BIOSTAT® B	DA and Control	LAN
	BIOSTAT STR®	DA and Control	Serial
	BIOSTAT RM® (Wave Bioreactor)	DA and Control	Serial
	BIOSTAT® DCU (e.g. Twin, Quad)	DA and Control	Serial / LAN (OPC/DA to MFCS/win)
Yokogawa	BR1000	DA and Control	LAN (Modbus TCP/IP)

04/2022

DSP DEVICES

Supplier	Device	Integration	Connection Type
GE Healthcare	ÄKTA™ (via Unicorn™)	DA and Control	LAN (OPC-DA/AE)
Merck Millipore	Cogent® M1	DA	LAN
Sartorius	SARTOFLOW® Slice 200	DA	Serial

Incubator Shakers

Supplier	Device	Integration	Connection Type
Kühner	Climo-Shaker	DA	Serial (Modbus/TCP)
Infors HT	Multitron / Multitron 2	DA	LAN

MASS FLOW CONTROLLERS

Supplier	Device	Integration	Connection Type
Aalborg Instruments & Controls	Aalborg® Command Modules	DA and Control	Serial / LAN
Eppendorf (DASGIP®)	DASGIP® MX Modules (Gas Mixing)	DA and Control	Serial
	DASGIP® MF4 (Gas Supply)	DA and Control	Serial
Sierra Instruments	SmartTrak® 50	DA and Control	Serial
Vögtlin Instruments	red-y series	DA and Control	Serial

SCALES AND BALANCES

Supplier	Device	Integration	Connection Type
Kern & Sohn	various scales	DA and Control	Serial
LW Measurements LLC	HRB series scales	DA	Serial
Mettler Toledo	various scales	DA and Control	Serial / LAN
	Lynx Terminal	DA	Serial
Ohaus	5000 series scales	DA	Serial
Radwag	various scales	DA and Control	Serial / LAN
Sartorius	various scales	DA and Control	Serial / LAN

04/2022

PUMP SYSTEMS

Supplier	Device	Integration	Connection Type
Levitronix®	PURALEV® consoles (LCO-i100/600) for SU and MU pump systems PURALEV®-i30/-i100/-200/-600/-2000/-4000	DA and Control	LAN
iPump	Various pumps	DA and Control	Serial
Ismatec®	Ismatec® Reglo ICC	DA and Control	Serial
Knauer	Various pumps	DA and Control	Serial

OFFLINE ANALYTICAL DEVICES

Supplier	Device	Integration	Connection type
4BioCell	4BioCompact	DA and Control	LAN
908 Devices	Rebel device	Auto Import	File Sharing
Advanced Instruments	model 2020/3320	DA	Serial
Agilent	HPLC (ChemStation)	DA and Control	LAN
Beckmann Coulter	Vi-CELL™ XR and Vi-CELL™ BLU	Auto Import	File Sharing
Buchi	NIRFlex® N-500	Auto Import	File Sharing
ChemoMetec	NucleoCounter® NC-200™	Auto Import	File Sharing
Gonotec®	Osmomat 3000, Osmomat AUTO	Auto Import	Serial
Metrohm	780 pH Meter	Auto Import	Serial
Mettler Toledo	various devices (pH meters, Conductivity meters, etc.)	DA	Serial
Nova Biomedical	Bioprofile® Flex & Flex 2	Auto Import	File Sharing
	Bioprofile® pHOx®	DA	Serial
	Bioprofile® 400 & 100+	DA	Serial
OLS OMN Life Science	Cell Counter CASY	DA	LAN
Optocell	CuBiAn®	DA and Control	Serial
Perkin Elmer	UV/Vis Spectrophotometer	DA and Control	Serial
Roche (Custom Biotech)	Cedex HiRes®	DA and Control	LAN

	Cedex Bio® & Bio HT®	Auto Import	File Sharing, Serial
Siemens	RAPIDPoint® 500e	DA	Serial
Thermo Fisher Scientific	HPLC (Chromeleon™)	DA and Control	LAN
WTW	inoLab® Cond 7310P & Multi 9310P	DA	Serial

GAS ANALYZERS

Supplier	Device	Integration	Connection type
Ametek	Dycor Mass Spectrometer	DA	LAN (OPC-DA)
BlueSens	BlueVary	DA	Serial
	BlueInOne	DA	Serial
	BC preFerm	DA	Serial
Diablo Analytical Inc.	Diablo 5000B	DA	LAN
Eppendorf (DASGIP®)	DASGIP® GA for Exhaust Analysis	DA and Control	Serial
HiTec Zang	RAMOS®	DA and Control	LAN (OPC-DA)
InProcess	GAM200 Mass Spectrometer	DA	LAN
LumaSense Technologies	Fermentation Monitor INNOVA 1313	DA	Serial
Presens	OXYPRo® series	DA	Serial
Siemens	Oxymat/Ultramat 5 & 6	DA	Serial
Thermo Fisher Scientific	MS Prima Mass Spectrometer	DA	Serial

ONLINE ANALYTICS

Supplier	Device	Integration	Connection type
Aber Instruments	Futura	DA and Control	Serial
	Biomass Monitor	DA	Serial
Buglab	BE 3000, BE2x00, BE3x00	DA and Control	Serial
Exner	EXcell 230, 231, 241	DA and Control	Serial
Hamilton	ArcView (Incyte & Dencytee) Redox Process Sensor	DA and Control	Serial / LAN

04/2022

Kaiser Optical Systems	Raman Spectroscopy system	DA and Control	LAN (OPC-UA)
Mettler Toledo	ReactIR	DA	LAN

OTHER LABORATORY DEVICES

Supplier	Device	Integration	Connection type
Securecell	Numera®	DA and Control	LAN
Bayer Technology Services	BaychroMAT®	DA	LAN (OPC-DA)
Gilson	Autosampler	DA and Control	Serial
VICI®	Valco Flow-Through Selector	DA and Control	Serial
Rhode & Schwarz	R&S®HMP4000 Power supply	DA and Control	LAN
TSI Inc.	AeroTrak® Particle Counter 6510	DA and Control	LAN

CONTROL SYSTEMS (PLC & DCS)

Supplier	Device	Integration	Connection type
ABB	Freelance (DCS)	DA and Control	LAN (OPC-DA)
	System 800xA (DCS)	DA and Control	LAN (OPC-DA)
Allen-Bradley	various PLCs	DA and Control	LAN (OPC-XML)
Emerson	DeltaV	DA and Control	LAN (OPC-DA)
Siemens	SIMATIC (PLC)	DA and Control	LAN (OPC-DA)

FIELDBUS DEVICES

Supplier	Device	Integration	Connection Type
Advantech	Adam I/O Modules	DA and Control	Serial
Phoenix	AD I/O Modules	DA and Control	LAN
Wago	AD I/O Modules	DA and Control	LAN
LabJack	LabJack T7/T4 series	DA and Control	LAN

04/2022

SOFTWARE

Supplier	Device	Integration	Connection Type
AGU	Sm@rt Data Cockpit® (SDC)	DA and Control	LAN
Agilent	ChemStation	DA and Control	LAN
TECAN	Magellan™	DA and Control	LAN
Thermo Fischer Scientific	Chromeleon™	DA and Control	LAN
GE Healthcare	Unicorn™	DA and Control	LAN (OPC-DA/AE)

OFFICE DEVICES

Supplier	Device
Intermec (Honeywell)	SG20T Tethered Scanner
Opal	various scanners/printers
Zebra	various label printers

STANDARD INTERFACES

OPC XML / AE / UA / DA
SQL interface
REST API
MODBUS (Serial and TCP/IP)
ASTM
Various XML files formats through XSLT transformation
Proprietary protocols

Contact

For more information on our products and services visit our website at www.lucullus-pims.ch

Securecell AG
In der Luberzen 29
CH-8902 Urdorf
Switzerland

T +41 44 732 90 70
F +41 44 732 90 79
lucullus-pims@securecell.ch

securecell
www.securecell.ch