

Lucullus PIMS

Complete Software Solution for Bioprocesses



1/6

SUPPORTED SYSTEMS AND DEVICES

03/2019

BIOREACTOR CONTROL UNITS

<i>Supplier</i>	<i>Devicer</i>	<i>Integration</i>	<i>Connection type</i>
Applikon	ez-Control	DA and Control	LAN
	i-Control	DA and Control	LAN
	in-Control	DA and Control	LAN
	my-Control	DA and Control	LAN
	SUB-Control	DA and Control	LAN
Eppendorf (DASGIP)	DASGIP® Parallel Bioreactor Systems	DA and Control	OPC/DA
Eppendorf (New Brunswick™)	BioBlu®	DA and Control	Serial
	BioFlo®	DA and Control	Serial
Finesse (Thermo Fischer Scientific)	G3Lab Universal Controller	DA and Control	LAN
GE Healthcare	Wave Bioreactor™ systems	DA and Control	OPC/DA
Infors HT	Labfors	DA and Control	OPC/XML
	Minifors	DA and Control	OPC/UA
	Sixfors	DA and Control	Serial
	Techfors	DA and Control	OPC/XML
Pharmatec	BIOREACTOR	DA and Control	LAN
Sartorius	ambr® 15	DA	OPC/DA
	ambr® 250	DA and Control	OPC/DA
	BIOSTAT STR®	DA and Control	Serial
	BIOSTAT RM® (Wave bioreactors)	DA and Control	Serial
	BIOSTAT® DCU (e.g. Twin, Quad)	DA and Control	Serial, LAN (OPC/DA to MFCS/win)

DSP DEVICES

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

CONTROL SYSTEMS (PLC & DCS)

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

MASS FLOW CONTROLLERS

<i>Supplier</i>	<i>Device</i>	<i>Integration</i>	<i>Connection Type</i>
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

<i>Supplier</i>	<i>Device</i>	<i>Integration</i>	<i>Connection Type</i>
Kern & Sohn	various scales	DA and Control	Serial
Mettler Toledo	various scales	DA and Control	Serial / LAN
	Lynx Terminal	DA	Serial
Radwag	various scales	DA and Control	Serial
Sartorius	various scales	DA and Control	Serial

OFFLINE ANALYTICAL DEVICES

<i>Supplier</i>	<i>Device</i>	<i>Integration</i>	<i>Connection type</i>
Advanced Instruments	Advanced™ model 2020/3320 Osmometer	DA	Serial
Agilent	HPLC (ChemStation)	DA and Control	LAN
Beckmann Coulter	Vi-CELL™	Auto Import	File Sharing
Buchi	NIRFlex® N-500	Auto Import	File Sharing
ChemoMetec	NucleoCounter® NC-200™	Auto Import	File Sharing
Gonotec®	Osmomat 3000	Auto Import	Serial
Mettler Toledo	SevenCompact pH meter	DA	Serial
	Bioprofile Flex 1	Auto Import	File Sharing
	Bioprofile Flex 2	DA	Serial
Nova Biomedical	Bioprofile pHox	DA	Serial
	Bioprofile 400	DA	Serial
	Bioprofile 100+	DA	Serial
Optocell	CuBiAn	DA and Control	Serial
Perkin Elmer	UV/Vis Spectrophotometer	DA and Control	Serial
	Cedex HiRes	DA and Control	LAN
Roche (Custom Biotech)	Cedex Bio	Auto Import	File Sharing, Serial
	Cedex Bio HT	DA and Control	Serial
	Cobas® c111	Auto Import	Serial
Thermo Fischer Scientific	HPLC (Chromeleon™)	DA and Control	LAN
WTW	inoLab® Cond 7310P	DA	Serial
	inoLab® Multi 9310P	DA	Serial

GAS ANALYZERS

<i>Supplier</i>	<i>Device</i>	<i>Integration</i>	<i>Connection type</i>
Ametek	Dycor Mass Spectrometer	DA	OPC/DA
BlueSens	BlueVary	DA	Serial
	BlueInOne	DA	Serial
	BC preFerm	DA	Serial
Eppendorf (DASGIP®)	DASGIP® GA for Exhaust Analysis	DA and Control	Serial
InProcess	GAM200 Mass Spectrometer	DA	LAN
LumaSense Technologies	Fermentation Monitor INNOVA 1313	DA	Serial
Presens	OXY series	DA	Serial
Siemens	Oxymat/Ultramat 5 & 6	DA	Serial
Thermo Fischer Scientific	MS Prima Mass Spectrometer	DA	Serial

ONLINE ANALYTICS

<i>Supplier</i>	<i>Device</i>	<i>Integration</i>	<i>Connection type</i>
Aber Instruments	Futura	DA and Control	Serial
	Biomass Monitor	DA	Serial
Buglab	BE 3000, BE2x00, BE3x00	DA and Control	Serial
Exner	EXcell	DA and Control	Serial
Hamilton	ArcView (Incyte & Dencytee)	DA and Control	Serial
Kaiser Optical Systems	Raman Spectroscopy system	DA and Control	OPC/UA
Mettler Toledo	ReactIR	DA	LAN

OTHER LABORATORY DEVICES

<i>Supplier</i>	<i>Device</i>	<i>Integration</i>	<i>Connection type</i>
Bayer Technology Services	BaychroMAT®	DA	OPC/DA
Securecell AG	Numera	DA and Control	LAN
Gilson	Autosampler	DA and Control	Serial
TSI Inc.	AeroTrak® Particle Counter 6510	DA and Control	LAN

FIELD BUS DEVICES

<i>Supplier</i>	<i>Device</i>	<i>Integration</i>	<i>Connection Type</i>
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

SOFTWARE

<i>Supplier</i>	<i>Device</i>	<i>Integration</i>	<i>Connection Type</i>
AGU	Sm@rt Data Cockpit (SDC)	DA and Control	LAN
Agilent	ChemStation	DA and Control	LAN
Thermo Fischer Scientific	Chromeleon™	DA and Control	LAN

OFFICE DEVICES

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

STANDARD INTERFACES

OPC XML / AE / UA / DA
SQL interface
REST API
MODBUS
ASTM
Various XML files formats through XSLT transformation
Proprietary protocols

Contact

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