

Hardware Solutions



Features

- cGMP hardware solution for singleuse bioreactors
- Modular and flexible
- Plug and play configuration
- Includes auxiliary control loops for easy control solutions
- Includes the components required to control a typical pilot or small scale production unit

Finesse Solutions, LLC 3350 Scott Blvd, Bldg 1 Santa Clara, CA 95054

Finesse Solutions AG

Via Sogn Gieri 27a CH-7402 Bonaduz Switzerland

877-204-8644 www.finesse.com

Solutions for Life

2009-0318

TruViu PLSS

TruViu™ PLSS has been specially designed for single-use pilot and small scale production bioprocess applications (< 2000L). The system consists of an I/O tower, a Transmitter Tower, a Pump Tower, and a Gas Manifold, as well as a large range of peripherals (cart, HMI, scales, sensors, external pumps, etc.) TruViu PLSS interfaces easily with the TruLogic™ Controller to deliver optimal performance when using TruBio® DV software. TruViu PLSS is designed to be flexible, modular and configurable, in order to maximize ease-of-use, simplify installation, yet remain highly flexible for multi-product applications.



TruViu PLSS

Dimensions	
I/O Tower	30"(H) x 24"(W) x 9"(D)
T/T Tower	24"(H) x 24"(W) x 9"(D)
Pump Tower	24"(H) x 16"(W) x 9"(D)
HMI Station	19" screen: 23.1"(H) x 24.6"(W) x 15.72"(D)

Specifications	
Rating	NEMA 4X
Operating Temperature	5 – 40°C (32 to 104°F)
Storage Temperature	-25 -70°C (-13 -158°F)
Relative Humidity	5-95% (non-condensing)
Certification	CE, EN-61010, and UL-508 compliance

I/O Tower Components		
Agitation	External Variable Speed Drive	
Temperature	Heater/RTD Control	
Pressure	Analog Input	
Pumps	Up to Six (6) Variable Speed Peristaltic	
Gas Control	Up to Six (6) Analog Mass Flow Controllers	
Scales/Balances	Analog output or TruConnect™ serial	
Auxiliary	Two (2) auxiliary control loops	
	Six (6) auxiliary 4-20 mA inputs	

T/T Tower Components	
рН	electrochemical or optical (optional redundancy)
Dissolved Oxygen	polarographic or optical (optional redundancy)
CO ₂	CO ₂ Transmitter (optional)
Temperature	High Precision Temperature Transmitter
	(optional redundancy)

Pump Tower Components		
Pumps	Up to four (4) Variable Speed Peristaltic	
	Watson Marlow 520 series (100 or 190 rpm)	
Standalone Pumps	Watson Marlow 520 series	
	Watson Marlow 620 series	
	Watson Marlow 720 series	



Solutions for Life



Hardware Solutions



2009-0318 TruViu PLSS, Continued

HMI Station Components		
Monitor/Computer	19" color touch screen industrial PC	
Certification	NEMA 4X	
Flat Panel Display	1280 x 1024, 24-bit color	
Keyboard	standard US, 5 million keystrokes	
Trackball	PS/2, > 1 million revolutions	

Minimum Licensing Requirements (Modbus)

DeltaV™	Pro Plus	25 DST
DeltaV™	Analog Output	25 DST

Accessories	
TCU	Thermal Control Unit for jacketed single-use bioreactors (SUBs)
Cart	Standalone mounting cart for PLSS system and peripherals
Pressure Switch	Pressure monitor at output of TruViu MFC
Scales	Analog output or select Sartorius
Cable Types	
pН	S8, K8, VP, TruFluor
DO	D4/T82, VP, TruFluor
Agitator	Finesse Custom
Heater TCU	Finesse Custom

Finesse Solutions, LLC 3350 Scott Blvd, Bldg 1 Santa Clara, CA 95054

Finesse Solutions AG

Via Sogn Gieri 27a CH-7402 Bonaduz Switzerland

877-204-8644 www.finesse.com