

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.



Features

- cGMP hardware for large single-use bioreactors
- Optimized to control seed and large-scale production units
- Modular, flexible yet affordable
- Plug-and-play
- Extensive auxiliary spares for third party peripherals

Dimensions

I/O Tower	30"(H) x 24"(W) x 9"(D) (762x610x229 mm)
T/T Tower	24"(H) x 24"(W) x 9"(D) (610x610x229 mm)
Pump Tower	20"(H) x 16"(W) x 9"(D) (508x406x229 mm)
HMI Station	19" screen: 23.1"(H) x 24.6"(W) x 15.72"(D)

Specifications

Rating	NEMA 4X
Operating Temperature	5 – 40°C (41 to 104°F)
Storage Temperature	-25 –70°C (-15 –158°F)
Relative Humidity	5– 95% (non-condensing)
Certification	CE (EN-61326 and EN-61010) and UL-508

PLSS Utility Tower Components

Agitation	External Variable Speed Drive
pH	Finesse electrochemical or TruFluor pH transmitter (redundant)
Dissolved Oxygen	Finesse polarographic or TruFluor DO transmitter (redundant)
Temperature	Finesse RTD or TruFluor pH/DO transmitter (redundant)
CO ₂	Mettler transmitter (optional, redundant)
Pressure	TruTorr transmitter
Liquid Control	Up to six (6) variable-speed pumps Up to four (4) Watson Marlow 520 series Up to two (2) external pumps with analog control
Gas Control	Up to six (6) mass flow controllers Max eighteen (18) associated solenoids
Scales/Balances	Analog output or serial communications (RS-232/RS-485)
Auxiliary	Two (2) auxiliary control loops (4-20 mA) Six (6) analog inputs (4-20 mA)

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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

TruViu PLSS was designed for use with large single-use vessels that require redundant sensors and multiple peripherals. It is designed to minimize footprint and start-up cost. One PLSSmini system and one PLSS system can be mounted onto a cGMP cart, along with a NEMA 4X operation station HMI.

General Hardware: Peripherals

Thermal Control	Heater/Chiller unit having analog control (Lauda T1200, T4600)
Pumps	Watson Marlow 520, 620, 720 series
Scales	Analog output or serial (select Sartorius)
Cart	Standalone mounting cart 34"(W) x 76"(H) x 25"(D) (86x193x64 cm)
HMI	19" color touch screen industrial PC, NEMA 4X, 1280 x 1024, 24-bit color, keyboard and trackball

Cable Types

pH	S8, K8, VP, TruFluor
DO	D4/T82, VP, TruFluor
Agitator	Finesse Custom
Heater TCU	Finesse Custom

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