

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 solution for single-use 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

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

pH	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

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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

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

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

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