

**Features**

- **cGMP controller for single-use bioreactors**
- **Powered by DeltaV controller**
- **Requires as few as two (2) DSTs per bioreactor controller**
- **Easily interfaced to third party peripherals, analyzers, SCADA and more**

**TruLogic Controller**

The TruLogic™ controller is powered by a DeltaV (MD+ or MX) controller capable of controlling up to eight (8) bioreactors. Each TruLogic Controller can be networked with additional TruLogic Controllers to create a control network capable of managing several hundred bioreactors. A TruLogic can be connected to TruViu hardware, or other peripheral hardware devices for flexible bioreactor control.

The TruLogic controller is packaged in a NEMA4X enclosure that can be mounted on a wall, a computer room, or a cart. The TruLogic can be up to 300 m away from the actual bioreactor vessel.



**Specifications**

Dimensions	24" (H) x 24" (D) x 8" (W) (610 x 610 x 203 mm)
Rating	NEMA 4X
Operating Temperature	5 –40°C (41 – 104°F)
Storage Temperature	-25 –70°C (-15 –158°F)
Relative Humidity	5–95% (non-condensing)
Power	110-240 VAC, 50/60 Hz
Certification	CE (EN-61326 and EN-61010) and UL-508

**Components**

Power	Redundant 24 VDC bulk power Uninterruptible power supply (UPS)
Controller	DeltaV MD+ or MX controller Redundancy available
Ethernet	Primary ethernet switch with six (6) connectors Secondary ethernet switch
I/O Modules	Modbus, DeviceNet, Foundation Fieldbus and Profibus DP, Traditional IO
Warranty	Every TruLogic Controller is warranted for one full year (12 months) from date of shipment against defects in material and workmanship

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