



G3Lite Bioreactor Controller



All-In-One Bioreactor Control

The G3Lite™ bioreactor controller is a cart-mounted, self-contained unit that can be operated independently or networked. The controller is engineered to minimize capital expenditure without sacrificing usability.

G3Lite bioreactor controllers leverage the latest Finesse technologies such as SmartParts, SmartSensors, and TruBio® software to enable easy, reliable, and repeatable process development and cell culture optimization.



Compatible Bioreactor Vessels

Single-Use Bioreactors	Total Volume (L)
Thermo Scientific HyPerforma™ SUB	All Sizes ≤ 2000
Thermo Scientific HyPerforma™ SUF	All Sizes ≤ 300
Millipore Mobius CellReady™	All Sizes ≤ 200
Xcellerex XDR™	All Sizes ≤ 2000



G3Lite Architecture

SmartSensors

For excellence in bioprocessing measurement, the G3Lite controller accommodates either TruFluor® and TruTorr® single-use or TrupH® and TruDO® sterilizable sensors.



SmartParts

Intelligent hardware that creates systems to precisely meet the requirements of a process. Enhance bioprocess reproducibility by exploiting the local control capability of each SmartPart, and scale productivity by modifying the loading on the primary controller and data network.



TruBio Software

The Finesse G3Lite is controlled by TruBio®DV Software which scales from benchtop R&D to cGMP-compliant processes. No programming skills are required.



G3Lite

SPECIFICATIONS

Utility Tower Dimensions (H x W x D)	1600 x 680 x 540 mm (63 x 27 x 21 in)
Enclosure Rating	NEMA12 / IP52
Operating Temperature	5°C to 40°C (41°F to 104°F)
Storage Temperature	-25°C to 70°C (-15°F to 158°F)
Relative Humidity	5% to 95% Non-Condensing
Certifications	Manufactured to conform to CE specifications EN-60101 and EN-61325
Weight / Shipping Weight	68 kg / 136.1 kg (150 lbs / 300 lbs)
Agitation	Thermo Scientific HyPerforma™ SUBs: 1/4HP or 1/2HP AC 3-Phase Induction Motor
pH (Up to 2 Inputs)	TruSens Transmitter (Electrochemical), TruFluor pH Transmitter (Single-Use)
DO (Up to 2 Inputs)	TruSens Transmitter (Electrochemical), TruFluor DO Transmitter (Single-Use)
Temperature	TruSens Transmitter (RTD) and/or TruFluor pH/DO Transmitters (Single-Use)
Pressure	TruTorr Transmitter (Single-Use)
Liquid control	Four (4) variable-speed peristaltic SmartPumps, Watson Marlow® Series 114, 313, or 520
Gas Control (TruFlow)	Basic: Four (4) MFCs with Two (2) Output Connectors Recommended: Six (6) MFCs with Three (3) Output Connectors
Scales / Load Cells	SmartScale Transmitter
Auxiliary	Two (2) Analog Inputs (12-bit, 4 to 20 mA); Two (2) Auxiliary Control Loops (4 to 20 mA)
Digital Output	Two (2) 24V Outputs; One (1) Dry Relay Alarm Contact
Thermal Control	Heater Blanket or Analog Temperature Control Unit (TCU)
Vent Filter Heaters	Two (2) Heaters for Pall KA3™ or Meissner UltraCap® 10-inch Filters
External Pumps	Up to two (2) Additional External SmartPumps, Watson Marlow® Series 114, 313, 520, 620 Freestanding or on a Finesse SmartPump Tower
pH Cables	K8, VP, TruFluor
DO Cables	D4, VP6, VP8, TruFluor
Vent Filter Heater Connection	IEC 60309 6H Receptacle 2P+E or external heater power box for larger jacketed SUBs
SUBs (Single-Use Vessels)	50 L to 2000 L
HMI	Standard Flatscreen Color Monitor, Washable Keyboard and Mouse



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