



TRUCCELL™ – CELL DENSITY MONITOR

PRODUCT INTRODUCTION

The TruCell™ – Cell Density Monitor is an optical transmission solution consisting of an optical sensor enabled by a VCSEL laser and an integral transmitter with a dedicated 4-20mA output.

The TruCell™ is optimized to provide accurate in-situ measurement of Cell Count in real time for Cell Culture and Fermentation applications. Autoclavable.

TruCell™ 



Specifications	
Range	0-4.0 AU
Precision (1 Σ)	+/- 0.02 AU
Resolution	0.005 AU
Optical Path Lengths	5mm (Fermentation) 10mm (Cell Culture)
Wetted Materials	Daikin PFA® and 316L S.S. (RA 12 EP)
O-ring Seals	Kalrez
Surface Finish	Ra 12 (electro-polished)
Light Source	Laser (VCSEL, 850 nm)
Process Temperature	10-40°C* (operation) 134°C max** (sterilization)
Enclosure Rating	NEMA 4X
Power	24 VDC, 0.25A
Output	4-20mA analog signal

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MEASUREMENT



TRUPH™ pH ELECTRODE

The TrupH family of 12mm pH electrodes is designed for improved performance, better repeatability and increased reliability in bioprocess applications such as Cell Culture and Fermentation.

- **LOW MAINTENANCE • FAST RESPONSE • HIGH ACCURACY •**
- **LOW DRIFFT • AUTOCLAVABLE, SIP & CIP •**



TRUDO™ DISSOLVED OXYGEN SENSOR

The TruDO family of rebuildable Dissolved Oxygen sensors is designed for superior performance, greater repeatability and improved reliability in bioprocess applications such as Cell Culture and Fermentation.

- **LOW MAINTENANCE • FAST RESPONSE • HIGH ACCURACY •**
- **LOW DRIFFT • AUTOCLAVABLE, SIP & CIP •**



TRUTRANSMITTER™ TRANSMITTERS

The TruTransmitterT family of pH and Dissolved Oxygen transmitters is designed with Biotechnology and Pharmaceutical applications in mind. These units feature full text prompts, menu driven configuration, large backlit LCD display and isolated 4-20mA Outputs.

- **EASE OF USE • FULL TEXT PROMPTS • LARGE BACKLIT LCD DISPLAY •**
- **ISOLATED 4-20 mA OUTPUTS • ALARMS •**

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CONTROL



TRUBIO BIOPROCESS CONTROL OS

The TruBio™ - Bioprocess Control Operating System is an “Open” fully configurable software solution enabled with embedded control logic for controlling pH, Dissolved Oxygen, Temperature, Pressure, Agitation, Flow, Level, Weight and more.



TRULOGIC™ CONTROLLER

The TruLogic™ Controller is powered by a DeltaV Controller capable of controlling up to Eight (8) bioreactors per controller. Each controller can be networked with additional TruLogic™ Controllers to create a control network capable of managing several hundred bioreactors.



TRUVIU™ TOWER

TruViu™ has been designed to interface easily with the TruLogic™ Controller to deliver the optimal performance from the TruBio™ OS in benchtop applications.