



TruCell2

Features

- Low cost solution
- Remote transmitter
- Interchangeable probes
- Calibration and diagnostic features
- Validation kit for cGMP applications

TruCell2 Sensor

The TruCell[®]2 sensor is a near-infrared light absorption sensor that comprises a sensor probe, selectable from a variety of configurations, a cable, and a transmitter. The transmitter integrates the signal processing, power conversion, 4-20 mA output signal generation, and user interface functions in one package.



TruCell2 Probe

The sensor probe employs a FDA-approved PFA[®] sensor head with possible alternative optical path lengths (OPL) of 5.0 mm (fermentation) or 10.0 mm (cell culture). The fluid inside the reactor, vessel or process piping passes into this gap. The FDA-approved PFA[®] used in the sensor head is transparent to near infrared light, allowing the FDA-approved PFA[®] surfaces to serve as the transmission windows. The system utilizes a laser as the near infrared light source.

The sensor probe includes the main shaft, the sensor head, and the electrical connector that is connected to the transmitter using a cable (6 ft [1.83 m] or 10 ft long [3.05 m]). For a given transmitter, the sensor probe can be replaced. The sensor probe can be separated from the cable and transmitter for sterilization.

TruCell2 Transmitter and probe

This figure illustrates the major components of the TruCell2 sensor. The probe is connected to the transmitter using a cable, which has one termination inside the transmitter and the other termination is a hooded connector that attaches to the probe.

TruCell2 Transmitter

The TruCell2 Transmitter look and feel was based on our family of pH and dissolved oxygen (DO) transmitters for life science applications. The TruCell2 Transmitter has a rugged, weatherproof, corrosion resistant enclosure (NEMA 4X). The panel mount version fits standard ½ DIN panel cutouts, and its shallow depth is ideally suited for easy mounting in cabinet-type enclosures. A pipe mounting accessory kit is available for mounting to a 2-inch pipe.

There are two levels of access (operator and technician). The access level setting determines whether both, neither, or only the technician level require using a password to log into the transmitter. Only the technician level has access to setup menus.

The transmitter offers automatic recognition of up to twelve (12) TruCell2 probes, and stores the initial calibration data for each probe. Diagnostics such as the “laser test” or “probe health test” warn the user of an aging or failed TruCell2 probe.

All transmitter and probe configuration settings are recovered automatically from non-volatile EEPROM when power is restored after a power failure.

Finesse Solutions, LLC
3350 Scott Blvd, Bldg 1
Santa Clara, CA 95054

Finesse Solutions AG
Via Sogn Gieri 27a
CH-7402 Bonaduz
Switzerland

877-204-8644
www.finesse.com