



TruCell2™ Transmitter

The TruCell2™ – Cell Density Transmitter is a remote, pipe or panel mounted, instrument which has been designed to optimize the performance and reliability of the TruCell2™ Cell Density Sensor by enabling automatic zeroing, temperature compensation, diagnostics, curve fitting and verification.



First line of display shows process value, second line shows process range. Fault and warning messages appear on the third line. The sensor ID and on/off status are shown on the fourth line. During configuration and calibration, all messages, prompts and editable values appear on the fourth line.

Features

- Low cost solution
- Remote mounted (pipe or panel)
- Automated zeroing, curve fitting and temperature compensation
- Enables sensor swapping
- Four point verification procedure

Physical Description

Case Material	ABS
Rating	NEMA 4X
Dimensions	6.2" x 6.2" x 4.0" (157x157x103 mm)
Mounting	Remote, panel or pipe mounted (kit included)
Conduit Openings	Accepts Pg 13.5 conduit fittings
Display	Four line 20 character display Character height of 4.8 mm

Specifications

Power	24 VDC @ 100 mA
Output	Isolated 4-20 mA
Operating Temperature	0–50°C (32–122°F)
Storage Temperature	-20–70°C (-4–158°F)
Relative Humidity	10–90% (non-condensing)
Analog Output Signal	Two wire, 4–20 mA output Fully scalable over sensor range
Output Accuracy	+/- 0.05 mA
Optical Loss Range	0–4.00 AU
Accuracy	+/- 0.005 AU at 25°C
Repeatability	+/- 0.001 AU at 25°C
Diagnostics	The internal diagnostics can detect: laser failure, 4 to 20 mA loop errors, or zeroing errors
Calibration	For each probe, the transmitter generates the calibration constants from a user-entered key.
Validation	A manual four-point validation procedure is made using NIST-traceable optical filters.
Temperature Compensation	Automatic compensation covers the range 15 to 45°C (59 to 113°F). Manual compensation is not selectable.
RFI/EMI	EN-61326
Weight/Shipping Weight	2 lb/3 lb (1 kg/1.5 kg)
Warranty	Every TruCell2™ Transmitter is warranted for one full year (12 months) from date of shipment against defects in material and workmanship

Transmitter

TXN-CDS-AOI	Remote, pipe or panel mounted transmitter
TXN-PWR-CC	Power supply (CC= US, UK, or EU)
TXN-STN	Transmitter stand