



MODEL 3000TB

Process Trace Oxygen Analyzer

Teledyne's Model 3000TB and 3010TB Bulkhead Mount Process Trace Oxygen Analyzers are versatile, microprocessor-based instruments for detecting oxygen in a variety of gases.

The 3000TB serves as a general purpose unit, while the 3010TB is designed as a "split architecture" instrument -- a general purpose, wall mounted Control Unit for non-hazardous areas controls a remote Analysis Unit that can operate in hazardous areas. Simple menu choices, membrane command switches, and a large LED display make setup and operation clear and quick.

Three Analysis Ranges

Three user-configurable ranges are standard, with excellent linearity precluding recalibration when changing ranges. Two fully programmable concentration alarms and relay functions provide the versatility to satisfy nearly any requirement. All features offer a sophistication that assure years of reliable service.

Convenient Outputs for Data

Standard 0-1 VDC and isolated 4-20 mADC outputs are provided for oxygen measurements and range identification. An RS-232C serial port allows the user to introduce span and zero gases through a host computer.

Extended Life, Maintenance Free Oxygen Sensor

The instruments use a long life Micro-fuel Cell to measure traces of O₂ in the sample gas. The L-2C (L-2LC for CO₂) sensor sets industry standards for accuracy and sensitivity, and comes with a 1 year warranty. Expected life for the sensor is two years. The sensor is specific to oxygen and accurately monitors gas streams containing up to 100% hydrocarbons.

The Micro-fuel Cell produces an output that is linear from 0 ppm to 100% O₂ enabling the use of ambient air for calibration. These units can also accommodate the use of a certified ppm O₂ span or zero gas which speed calibration when necessary.

Standard Features

- NEMA 4/7 rated enclosure
- RFI hardened
- Security code protection
- Microprocessor based electronics
- Signal output: 0-1VDC & 4-20 mADC
- Programmable Auto Ranging
- Two fully-adjustable concentration alarms and a system failure alarm
- Self diagnostics



3010TB Split architecture version

Built for Reliability and Performance

MODEL 3000TB / 3010TB TRACE OXYGEN ANALYZER

Options

-C	Electrically operated cal/zero valves
-V	Vacuum service
-F	Flame arrestors for Group C&D service (3010TB)
-H	Flame arrestors for Group B service (3010TB)
-S	Stainless steel cell block

Applications

- Monitoring inert gas blanketing
- Air separation and liquefaction
- Chemical reaction monitoring
- Semiconductor manufacturing
- Petrochemical process control
- Quality assurance
- Gas analysis certification

Specifications

Area classification:	3000TB - General purpose bulkhead mount 3010TB - Analysis unit: Explosion proof enclosure Control unit: General purpose bulkhead mount
Sensor:	Class L-2C, two year life expectancy
Ranges:	Three user-definable ranges (Min: 0-10 ppm full scale)
Sample connections:	User specified 1/4" or 6mm fittings

Alarms:

- One system failure alarm contact to detect power, calibration, zero and sensor failure
- Two adjustable concentration threshold alarms with fully programmable set points

Diagnostics:

Comprehensive self testing function

Accuracy:

±1% of full scale at constant temperature

Sensitivity:

0.5% of FS

Displays:

One LCD screen for setup, one five-digit LED for O2 value

Digital interface:

RS-232C

Power:

110 or 220V (user specified), 50/60 Hz

Operating temp:

32° to 122°F (0-50°C)

Signal output:

Analytical measurement: 0-1 VDC and 4-20 maDC isolated

Range ID output:

0-1 VDC and 4-20 maDC isolated

Response time:

99% of FS at 77°F (25°C) < 61 seconds

Dimensions:

11.81" W x 20.28" H x 8.9" D
(3000TB and 3010TB Control Unit)

Enclosure:

(3000TB and 3010TB Control Unit): Sheet steel, NEMA 4/7
(3010TB Analysis Unit) - Explosion proof. U/L and CSA listed for Class I, Division 1, Groups B, C, and D service, NEMA 4/7 rated

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