

# OxyTrans LC OEM

## 4 – 20 mA Loop Powered two wire Oxygen Transmitter

### Two Wire Process Oxygen analyzer

The Model OxyTrans LC is simple, accurate and economic measurement of Oxygen at trace (ppm) levels and % levels.

- **Four User Specific Measuring Range Offered for flow through Unit**
- **Two User Specific Measuring Ranges Offered for diffusion method**

The OxyTrans LC is offered in 5 different measuring ranges: 0-100 ppm, 0-1000ppm, 0-10000ppm and 0 – 25%, 0-100% of oxygen. The range must be specified at the time of order. (please refer to the configuration table)

- **Sensor**

The OxyTrans LC uses a special fuel cell to measure the oxygen concentration. The sensor meets the industrial requirements for accuracy, sensitivity, easy to use and operating life.

- **Calibration**

The calibration of the instrument for trace oxygen (PPM) measurements in gas, should be done with a calibration gas. The concentration can be chosen freely within the measuring range.

In the percent range the unit can be calibrated with air.



**Diffusion Unit (KF flange)**

### Features

- compact
- inexpensive
- Sensor with long operating life
- IP65 enclosure
- reverse voltage protection and temperature compensation
- no cross sensitivity to H<sub>2</sub> gas



Flow Through Unit



- **Flow-through measuring cell in synthetic material**

The measuring cell is modular and is made of synthetic material.

**Specification**

Measuring ranges  
 ppm : 0 - 100; 0 – 1000;  
           0 – 10.000 ppm O<sub>2</sub>  
 % : 0 - 25 %; 0-100% O<sub>2</sub>,  
 Calibration : with calibration gas, air  
 Accuracy : +/- 2% FSD T= 25C.  
           +/- 5% FSD 0>T>50°C

Response time : 90 % FSD at 25°C  
                   0-100 ppm < 20 s  
                   0-1000 ppm < 10 s

Operating Temperature : 0 - 50°C

Pressure : 0.1 - 6 bar

Signal output 4 -20 mA/DC looped  
 powered

Voltage : 18 – 35 VDC  
 reverse voltage protection  
 up to 40VDC

load : typ. 470 Ohm,  
 max. 750 Ohm

oxygen sensor : Micro-Fuel Cell,  
 housing : IP65

Size : 70mm x 60mm (H x W)  
 Weight : 0.3 kg

**Typical**

- different sensors available: 16T303 inert gas in the ppm ranges (A), 16T304 traces of acidic gases in the PPM range(B), 16P306 for inert gases in the % range(C), 16P307 for acidic gases in the % range(D)
- 5 different Measuring ranges
- synthetic material Cell block

**Applications are found in**

- Nitrogen plants
- Gas manufacturers'
- Metallurgical industries
- Chemical industry
- Heat treating and bright annealing
- Reflow oven

**Configuration table**

**Ordering example:** Oxytrans-LC4-FT D

**Special note:** Oxytrans-LC5-KF (range 0-100000ppm) sample cavity is made of stainless-available in single piece qty

OxyTrans LC model	Range	Application (inert gas) Type of sensor needed	Application (acidic gas) Type of sensor needed
Oxytrans-LC1-FT	0-100 ppm	A	B
Oxytrans-LC2-FT	0-1000 ppm	A	B
Oxytrans-LC3-FT	0-10000 ppm	A	B
Oxytrans-LC4-FT	0-25%	C	D
Oxytrans-LC5-KF	0-10000 ppm	A	B
Oxytran-LC6-KF	0-100%	C	D

