

# 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, 0-1000ppm 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)

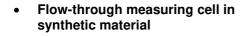
#### **Features**

- 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



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 : 0 - 50°C

Temperature

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

# 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) Application (acidic gas) Type of sensor needed Type of sensor needed Oxytrans-LC1-FT 0-100 ppm В Α Oxytrans-LC2-FT 0-1000 ppm Α В Oxytrans-LC3-FT 0-10000 ppm Α В Oxytrans-LC4-FT 0-25% С D A Oxytrans-LC5-KF В 0-10000 ppm D Oxytran-LC6-KF 0-100%

**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

Roscid Technologies www.roscid.com 781 933 4007

