

# OxyTrans

## 4-20 mA Loop Powered Two Wire Oxygen Transmitter




OxyT



OxyT-PSS



OxyTrans-EX

 II 1/2 G Ex ia IIC T4  
(ATEX Approved)

## Two Wire Process Oxygen Transmitter

The Model OxyTrans is an easy to use, accurate and economical way to measure Oxygen at trace and % levels. A simple display and one point calibration allows for a quick start of the instrument.

### ▶ Measuring Range

The unit will offer ranges between  
0-100ppm, 0-1,000ppm, 0-10,000ppm of oxygen.  
0-1% to 0-25% O<sub>2</sub>.

### ▶ Sensor

The OxyTrans 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 measurements in gas should be done with a known calibrated gas. The concentration can be chosen freely within the measuring range.

### ▶ Flow-Through Measuring Cell in Stainless Steel

The measuring cell is modular and made of stainless steel. A defective measuring cell can be repaired by replacing the defective part only, rather than the complete unit.

### Features:

- Compact
- Inexpensive
- Sensor with long operating life
- IP65 enclosure
- Reverse voltage protection and temperature compensation

### Applications:

- Semi Conductor Industry
- Gas Manufacturers
- Metallurgical Industries
- Chemical Industry
- Heat Treating and Bright Annealing
- Hydrogen / Flammable Gas

## SPECIFICATION

### Measuring Ranges:

O2 PPM Range: 0-100ppm  
0-1,000ppm  
0-10,000ppm  
% O2 Range: 0-1%, 0-25%

Range must be specified at time of ordering.

Calibration: With calibrated gas, air

Accuracy:  $\pm 2\%$  FSD T = constant  
 $\pm 5\%$  FSD 0>T>50°C

Resolution: 0.1 ppm at 0-100 ppm  
1 ppm at 0-1,000; 0-10,000 ppm  
0.1%

Response Time: 90% FSD at 25°C  
0-10 ppm < 45 s  
0-100 ppm < 20 s  
0-1,000 ppm < 10 s

Operating Temperature: 0 - 50°C

Pressure: 0.1 - 1 bar

Signal Output: 4 - 20 mA/DC

Alarm Value: 3.8 mA (Standard) or  
23mA (if desired)

Voltage: 10 - 35 VDC

Load Range: 100 to 750 ohm  
Typ. 470 ohm

Display: 6 Digits, alphanumeric with bar graph

Oxygen Sensor: Micro-Fuel Cell

Housing: IP65

Dimensions: 120mm x 160mm x 65mm (L X H X W)  
4.7" x 6.3" x 2.5"

Weight: 1.2kg (206lb)

## TYPICAL

Different Sensors Available

5 Different Ranges

316 SS Stainless Steel Cell Block

## MODEL TYPES

**OxyT** Standard

**OxyT-H** Works with the Hart Protocol

**OxyT-RA** Right angle display

**OxyT-SS** Panel mount sampling system  
Panel size: 38.1cm (15") square  
Weight: 3.2 kg (7lb)

**OxyT-PSS** Portable sampling system with  
power supply and pump option  
Weight: 6.8kg (15lbs)

**OxyTrans-EX** Explosion Proof, 2 wire loop  
powered transmitter  
(ATEX approved)



**OxyT-SS**



**OxyT-RA**

