# PRO-CHEM ANALYTIK

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

### Two Wire Process Oxygenanalyzer

The Model OxyTrans is simple, accurate and economic measurement of Oxygen at trace and % levels.
A simple Display and one point calibration allow easy and fast start-up of the instrument.

optional ⟨Ex⟩ 1/2 G Ex ia IIC T4 (ATEX)

☺ **One User specific measuring range**

The unit will offer with ranges between 0-10 ppm and 0 – 100% of oxygen.

☺ **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 calibration gas. The concentration can be chosen freely within the measuring range.
In the percent range the unit can calibrated with air.

☺ **Features**

- ✓ compact
- ✓ inexpensive
- ✓ Sensor with long operating life
- ✓ IP65 enclosure
- ✓ reverse voltage protection and temperature compensation



☺ **Flow-through measuring cell in Stainless Steel**

- The measuring cell is modular and is made of stainlesss steel
- A defective measuring cell can be repaired by replacing the defective part only, rather than the complet unit



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## Specification

Measuring ranges

| | | |
|---|---|---|
| ppm | : | 0-10, 0 - 100; 0 – 1000; 0 - 10000 ppm $O_2$ |
| % | : | 0 - 25; 0 – 100 % $O_2$ |

| | |
|---|---|
| Calibration | : with calibration gas, air |
| Accuracy | : +/- 2% FSD T= konst. +/- 5% FSD 0>T>50°C |
| Resolution | : 0,1 ppm < 0-100 ppm 1 ppm at 0- 1000, 0-10000 ppm 0,1 % |
| Response time | : 90 % FSD at 25°C 0-10 ppm < 45 s 0-100 ppm < 20 s 0-1000 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 23 mA ( if desired ) |
| Voltage | : 10 – 35 VDC reverse voltage protection up to 40VDC |
| load | : typ. 470 Ohm, max. 750 Ohm |
| Display | : 6 Digits, alphanumeric with bar graph |
| oxygen sensor | : Micro-Fuell Cell, |
| housing | : IP65 |
| Size | : 120 x 160 x 65 ( B x H x T ) ( über alles ) |
| Weight | : 1,2 kg |

## Typical

- different sensors available

- 5 different Measuring ranges

- 316 SS Stainless steel Cell block



optional Sensor housing with 1 ¼" Tread

## Applications are found in

- Semi conductor industry

- Gas manufacturers'

- Metallurgical industries

- Chemical industry

- heat treating and bright annealing

- e.t.c.