PRO-CHEM ANALYTIK

OxyTrans

4 – 20 mA Loop Powered two wire Oxygen Transmitter

Two Wire Process Oxygen analyzer

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 1/2 G Ex ia IIC T4 (ATEX)

☺ One User specific measuring range

The unit will be available with ranges between 0-10 ppm and 0 – 50% of oxygen. The ppm range can be switch at 10.000/ 1.000/ 100/ 10 ppm and the % range at 25/ 2,5/ 0,25 % O_2.

☺ 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. A zero set point is also possible.

☺ Features

- ✓ compact
- ✓ inexpensive
- ✓ switching ranges 10.000ppm to 10 ppm
- ✓ storage cost from 4 to 1 device reduced
- ✓ Sensor with long operating life
- ✓ IP65 enclosure
- ✓ reverse voltage protection and temperature compensation
- ✓ No cross sensitivity to H_2
- ✓ zero calibration for measurement in low ppm rang

☺ Flow-through measuring cell in Stainless Steel

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

Specification

Types and Measuring ranges (switchable)

OxyT II-T	ppm	: 0 - 10, 0 - 100; 0 - 1000; 0 - 10000 ppm O_2
OxyT II-P1		: 0 - 0,25; 0 - 2,5; 0 - 25 % O_2
OxyT II-P2		: 0 - 0,5; 0 - 5; 0 - 50 % O_2
OxyT II-P3		: 0 - 1; 0 -10 % O_2

Special ranges possible
for higher values use OxyTrans 100

Calibration	: with calibration gas ppm or air (% range)
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 % for 25%
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
Digital	: HART-Communication
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,
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

rev1

Typical

- different sensors available
- manuell switch of Measuring ranges
- 316 SS stainless steel Cell block

optional Sensor housing with KF40 flans

Applications are found in

- Semi conductor industry
- Gas manufacturers'
- Metallurgical industries
- Chemical industry
- heat treating and bright annealing
- e.t.c.

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