PRO-CHEM ANALYTIK

OxyTrans ⟨Ex⟩

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 be available with ranges between 0-10 ppm and 0 – 100% 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-P2   : 0 – 1; 0- 10; 0- 100 %O_2

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   : 0 - 50 °C
Temperature

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.