OxyTrans

4 – 20 mA Loop Powered two wire Oxygen Transmitter

Two Wire Process Oxygen analyser

The Model OxyTrans is simple, accurate and an Economical way to measure traces and % ranges of Oxygen. The unit has a simple display and offers a one point calibration allowing for a quick start up.

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

Specific measuring range

There are 2 types of units, one for the PPM range and one for the percent range. The PPM range offered is 0-10000ppm (model OXYT-II-P) and the % unit is offered in three different incremental ranges. First range is 0-0.25, 0-2.5 and 0-25% (model OXYT-II-T1), second range is 0-0.5, 0-5, and 0-50% (model OXYT-II-T2) and the third range is 0-1%, 0-10% and 0-100% (model OXYT-II-T3).

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 long operating life.

Calibration

The calibration of the instrument for trace oxygen measurements in gas, should be done using a certified calibration gas. The concentration can be chosen freely within the measurement range.
For the percent range the unit can calibrated with air. A zero set point is also possible.

Features

- ✓ compact
- ✓ inexpensive
- ✓ switching ranges
- ✓ 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 range

Simple display, user friendly adjustments and all stainless steel flow-through housing

- The measuring cell is modular and is made of stainless steel
- An expired measuring cell can be replaced by the end user without ever returning the unit

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Specification

Model names and measuring ranges (switchable)

OxyT II-T (ppm)	: 0-10, 0-100, 0–1000, 0 - 10000 ppm O_2
OxyT II-T1	: 0 – 0.25, 0- 2.5, 0- 25 %O_2
OxyT II-T2	: 0 – 0.5, 0- 5, 0- 50 %O_2
OxyT II-T3	: 0 – 1, 0- 10, 0- 100 %O_2
Calibration	: use a known calibration gas For ppm range and air (%)
Accuracy	: +/- 2% FSD T= const. +/- 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-Fuel Cell
housing	: IP65
Size	: 120 x 160 x 65 (B x H x W) (mm)
Weight	: 1.2 kg
Process Connection	: ¼“ Tube

Typical

- different sensors available
- manual switch for changing measuring ranges
- 316 SS stainless steel cell block

optional Sensor housing with KF40 flange

Applications are found in

- Semiconductor industry
- Gas manufacturers'
- Metallurgical industries
- Chemical industry
- heat treating and bright annealing
- and many more.

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