

OXYMASTER II 16TDP Oxygen- and Humidity- measurement in one unit

Humidity- and Oxygen measurement

This Model was made for fast, accurate and economic measurement of Oxygen and Dewpoint at trace levels.

A simple menu-driven software, touchpad and large LCD-display allow easy and fast start-up of the instrument.

The Unit is measuring Humidity between -0.1 and 1000 ppm and Oxygen between 0 – 10000 ppm.

☺ **User-selectable measuring range**

The user can select any range within the 0 - 10000 ppm and 0.1 - 1000ppm humidity.

Free-programmable concentration alarm and a system alarm give versatility meeting almost any requirement.

☺ **Data outputs**

For the Oxygen concentration and the Dewpoint are 2 x 4-20 mA output standard available. Other outputs are available on request. RS485 is an option.

☺ **Sensor with long operating life**

The Oxymaster 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.

To measuring the Humidity, the unit use a P_2O_5 probe.

☺ **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.



☺ **Benefits**

- Compact economic instrument with sensor separate from the electronics
- Sensor with long operating life.
- No range switching required Instructions and error messages in normal text (e.g. calibration not OK, change measuring cell)

☺ **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

Measuring range	: 0 - 10000 ppm O ₂ Free programmable Lowest range 0-10 ppm
Humidity range	: 0.1 – 1000 ppm Humidity Free programmable
Calibration	: with calibration gas
Accuracy	: +/- 2% FSD (T= const.) +/- 5% FSD Over full temperature range (at 0 -10 ppm +/- 1ppm)
Resolution	: 0.1 ppm to 100 ppm 1 ppm from 100 to 10000 ppm 0.1ppm Humidity
Response time	: 90 % of FSC at 25°C 0-10 ppm < 45 s T ₉₀ of Step changes < 60 sec.
Operating Temp.	: 0 - 50°C
Pressure	: 0.1- 1 bar
Outputs	: 2 x 4 -20 mA/DC isol.
Display	: Graphic
System diagnostics	: Self diagnosis with display
Power	: 85 - 230 VAC, 44/60 Hz
Oxygen sensor	: Micro-Fuel Cell,
Sensor warranty	: 1 year under normal use and maintenance
Expected sensor life	: over 2 years
Size	: 232 x 202 x 163 (W x H x D)
Weight	: 3 kg

Typical

- Variety of sensors available or can be used
- User programmable measuring range
- Output signal: 4-20 mA for O₂
- Output signal: 4-20 mA for Humidity
- Self-diagnosis
- Clear text graphic display
- Data tracking, temperature reading
- SS316 measuring cell
- Instructions and error messages in Normal text
- universal Power supply
85 - 230 VAC 50 - 60 Hz
- 24 VDC / ca. 50 Watt



Sensor:

P₂O₅ (independent of flow between 0.25 – 2.5 l/min)



Applications are found in

- Semi conductor industry
- Gas manufacturers
- Metallurgical industries
- Chemical industry