

OXYMASTER II

Oxygen and Moisture measurement in one unit

Moisture and Oxygen measurement

This Model was made for fast, accurate and economic measurement of Oxygen and moisture 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 moisture and Oxygen between 0 – 10000 ppm.



- **User-selectable measuring range**

The user can select from the following range for O₂ and moisture, 0-10, 0-100, 0-1000, 0-10000ppm. 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. 2 alarms relays 230V/.2.5A. 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 dew point, the unit uses a nano sensor technology

- **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



Part Number	Oxygen Range	Moisture Range
Oxymaster-II-1	0-10 ppm	0-10ppm
Oxymaster-II-2	0-100 ppm	0-100 ppm
Oxymaster-II-3	0-1000ppm	0-1000ppm
Oxymaster-II-4	0-10000 ppm	0-10000 ppm
Oxymaster-II-5	0-10000 ppm	20 - -110C

Specification

O2 Measuring range : 0 - 10000 ppm O₂

Moisture range : 20 - -110C or 0-10000 ppm ranges
For different ranges contact factory

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
0.1C Humidity

Response time : 90 % of FSC at 25°C
0-10 ppm < 45 s
T₉₀ 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,
Moisture Sensor: : ceramic Nanosensor
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 : 5 kg

Typical

- User programmable measuring range
- Output signal: 4-20 mA for O₂
- Output signal: 4-20 mA for Moisture
- Self-diagnosis
- Clear text graphic display
- 2 alarm relays 230V/2.5A
- 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



MoistureSensor: Sample cell not shown



Applications are found in

- Semi conductor industry
- Reflow Ovens
- Metallurgical and Chemical industries

