

OXYMASTER 16TDP

Oxygen and Humidity measurement in one unit

OXYMASTER 16TDP

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 measures Humidity between -0.1 and 1000 ppm and Oxygen between 0 – 10000 ppm.

User-selectable measuring range

The user can select any range within 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 Oxygen concentration and Dewpoint 2 x 4-20 mA output is standard. Other outputs are available on request. RS485 is an option.

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)



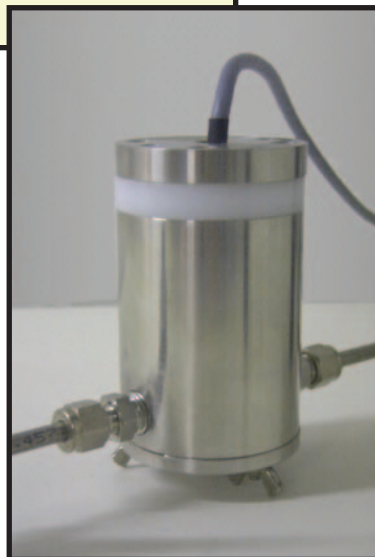
Sensor with long operating life

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 measure the Humidity the unit uses a P2O5 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.



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



Moisture and Humidity Systems

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Specification

Measuring range :	0 - 10000 ppm O2 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 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,
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

- Variety of sensors available or can be used alone
- 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



MOISTURE AND HUMIDITY SYSTEMS

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