

PRO-CHEM ANALYTIK

Oxygen- and Humidity-measurement in one unit

Dewpoint- 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 simultan Dew points between -100°C und $+20^{\circ}\text{C}$ and Oxygen between 0 – 10000 ppm.

☺ User-selectable measuring range

The user can select any range within the 0 - 10000 ppm and -100°C - $+20^{\circ}\text{C}$ dewpoint.

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 Dewpoint, the unit use an Aluminiumoxid 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 (eg 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
Dewpoint range	: -100 - +20°C dewpoint free programmable
Calibration	: with calibration gas
Accuracy	: +/- 2% FSD (T= const.) +/- 5% FSD over full temperature range (bei 0 -10 ppm +/- 1ppm) +/- 2°C dewpoint
Resolution	: 0,1 ppm to 100 ppm 1 ppm from 100 to 10000 ppm 0,1°C dewpoint
Response time	: 90 % of FSC at 25°C 0-10 ppm < 45 s -20°C auf -60°C < 60 sec.
Operating Temp.	: 0 - 50°C
Pressure	: 0,1 - 1 bar
Outputs	: 2 x 4 -20 mA/DC isol.
Display	: Graphic
Systemdiagnostics	: Self diagnostics with display
Power	: 85 - 230 VAC, 44/60 Hz
Oxygensensor	: Micro-Fuel Cell,
Sensor warranty	: 1 year under normal use and maintenance
Expected sensor life	: over 2 years
Size	: 480 x 380 x 260 (B x H x T)
Weight	: 12 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 Dewpoint
- 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

Applications are found in

- Semiconductor industry
- Gas manufacturers
- Metallurgical industries
- Chemical industry

Pro-Chem Analytik GmbH & Co.KG

Neuer Bruchweg 1, 46509 Xanten

Tel.: 02801/ 98510-70 Fax: 02801/ 98510-71

e-mail: info@prochem-online.com www.prochem-online.com