

VOLTCRAFT

VOLTCRAFT - TOP PERFORMANCE IN EVERY WAY

For more than 40 years, our product range has been dynamically adapting to the constant changes in the industry. We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft's success.

OM-100 **Oxygen Meter**

CE

Item no: 2574174

The product is a handheld oxygen meter that uses an electrochemical oxygen sensor. The product can be used to measure ambient or inline oxygen (O₂) concentration levels.



FEATURES

Inline gas measurement // Ambient air measurement // Maximum, minimum, average readings //
Hold function // Backlight function

TECHNICAL DATA

Handheld unit

Power supply	1x 9 V block battery
Accuracy	calibrated device at nominal temp.: $\pm 0.1\% \text{ O}_2 \pm 1$ digit sensor linearity: <2 vol.-% +/- 0.1 % <25 vol.-% +/- 0.5 % <100 vol.-% +/- 1.0 %
Calibration	perform calibration at regular intervals, in ambient air (approx. 21.0 % O ₂) by volume
Measurement	0 - 100 % O ₂ concentration
Resolution	0.1 %
Response time (T ₉₀)	<15 seconds
Operating pressure	0.5 - 2.0 bar absolute
Operating conditions	0 to +50 °C, ≤99 % RH (non-condensing)
Storage conditions	-10 to +60 °C, ≤99 % RH (non-condensing)
Dimensions (W x H x D)	30 x 111 x 73 mm
Weight	approx. 192 g (without battery)

Oxygen sensor

Output	9 - 13 mV (21 % O ₂)
Output connector	3.5 mm jack
Sensor type	Partial pressure electrochemical
Measurement range	0 - 100 % vol. O ₂
Response time	(T ₉₀) <15 s
Baseline offset	<200 μV
Temperature compensation	<2 % O ₂ equivalent variation from 0 to +40 °C
External load resistor	≥10 kΩ
Lifetime	Long term output drift in 100% O ₂ : <5 % signal loss/year Operating Life: 1.5 x 10 ⁶ % O ₂ hours at 20 °C 0.8 x 10 ⁶ % O ₂ hours at 40 °C
Operating pressure range	0.5 - 2.0 bar
Operating conditions	-10 to +30 °C, ≤99 % RH (non-condensing)
Storage conditions	-10 to +50 °C, ≤99 % RH (non-condensing)
Weight	approx. 38 g

CONTENTS

Product // Sensor element (with: T-piece adaptor, T-piece) // 5x spare O-rings // 9 V battery //
Operating instructions

This is a publication by Conrad Electronic SE, Klaus-Conrad-Str. 1, D-92240 Hirschau (www.conrad.com).

All rights including translation reserved. Reproduction by any method (e.g. photocopying, microfilming or the capture in electronic data processing systems) requires prior written approval from the editor. Reprinting, also in part, is prohibited. This publication reflects the technical status at the time of printing.

Copyright by Conrad Electronic SE.

*2574174_V1_0523_en_ds 867106955 11/01 en