



Function:

The **oxygen probe** is suitable for direct installation in the furnace atmosphere. Its operation is maintenance free.

The output EMF is equivalent to the Nernst effect.

The probe temperature is recorded by a PtRh-Pt thermocouple.

The **oxygen probe** is suitable for direct connection to all reputable C-level control systems (e.g. **Carbomat-M**).

The probe delivers a continuous measuring signal and is characterized by a fast response time. The current carbon content of the furnace atmosphere is calculated from the probe voltage according to Nernst and the EMF of the thermocouple.

The reproducible internal resistance of the probe permits simple calculation of its residual service life.

Oxygen probe for heat treatment installations

Technical Data :

Sensor element:
Continuous zirconium oxide tube

Measuring range:
21...10⁻²⁶ %O₂

Output:
0...1300 mV

Response time:
Approx. 1 sec.

Working temperature:
700...1050°C

Thermocouple:
Pt10Rh-Pt type:"S" according to
DIN 43710

Protective tube:
Heat-resistant steel or according
to customer specification

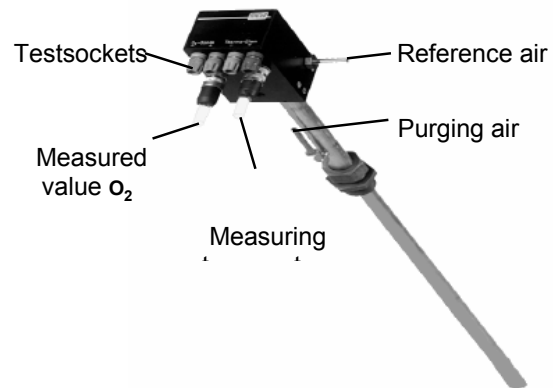
Nominal length:
Standard 600 mm
or according to customer
specification up to 1200 mm

Mounting thread:
1" G

Connection:
Separate sockets and connectors for
probe and thermocouple

Connection for air lines:
Reference air and purging air

Connector and Air connections:



All specifications subject to change without prior notice

Benötigtes Zubehör:

- LV 1

Optionales Zubehör:

- Carbo 15/ 47
- Carbo 100
- Carbo 1000
- Carbomat-M
- Carbo-M