

**AO2000 Series
Oxygen Analyzer Module
Magnos106**

Manufacturer:

ABB Automation GmbH, Frankfurt, Germany

TÜV SÜD Industrie Service GmbH hereby certifies that AO2000-Magnos106 has achieved the following results for emission monitoring at a waste incinerator and meets the requirements for facilities requiring authorization and to German 27th BImSchV and TI-Air regulations -, as well fulfills the requirements for

QAL 1

according to EN 14181 and EN ISO 14956

(e.g. waste incineration plants 17th BImSchV, large furnaces 13th BImSchV and others,...).

Measuring ranges tested:

O₂ 0-10 Vol.-%

O₂ 0-25 Vol.-%

Availability:

> 98 % over a 3 month period for two independent systems including sample conditioning

Drift:

With internal automatic single-point calibration with ambient air (interval 4 weeks)

Zero point drift: < 0.2 Vol.-% O₂ per year

End point drift: < 0.2 Vol.-% O₂ per year

The automatic calibration unit for zero and span point must be checked yearly.

Cross sensitivity:

Sum of all cross sensitivities for above mentioned components against SO₂, NO, CO₂, CH₄, N₂O, NO₂, CO and H₂O in typical flue gas concentrations < 0.1 Vol.-% O₂.

Detection limit:

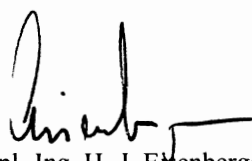
O₂ ≤ 0.01 % of span

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Dr. A. Brandl

München, June 2006



Dipl.-Ing. H.-J. Eßenberger