



cem solutions
CONTINUOUS EMISSIONS MONITORING

OMD 14

Oxygen Measurement Sensor



Product Information

To optimise boiler combustion, a continuous measurement of oxygen in the process can be utilised to trim excess air and vastly improve boiler control, operation and efficiencies.

The OMD 14 is a low cost, low maintenance device that measures the oxygen content in process and flue gases via an in-situ probe, integrated signal processor and display.

FEATURES AND BENEFITS

- Ease of installation - compact device
- Integrated display for ease of operation
- Very low maintenance requirements
- Easy manual calibration with test gas
- Extremely low operating costs
- No requirement for an air supply



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TECHNOLOGY

The oxygen measurement is carried out by means of a zirconium dioxide cell. Inside the cell the measuring gas is separated from the reference gas (ambient air) via a zirconium membrane. Oxygen ions move through the membrane resulting in an electrical potential difference.

This proven technology creates a stable accurate measurement across the measurement range.

TECHNICAL DATA OMD 14

Weight / Dimensions	Approx 5.3kg, 160mm x 160mm, probe length 1000mm standard
Measuring Range	0-25%
Max Temperature	250°C standard (optional 350°C)
Ambient Temperature	-20 to+ 50°C
Outputs	2 analogue out, 5 digital out (including failure, maintenance, limit 1 & 2)
Inputs	1 analogue, 1 digital
Power Supply	12-24 V DC or 100-240V AC
Maintenance Interval	12 months

Special models are possible on request



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