

TTH

In situ oxygen sensor



Quick and accurate information about the oxygen concentration inside heat treatment atmospheres, and inside combustion atmospheres, are essential. Thanks the MicroPoas¹ (zirconia sensor with built-in metal reference), the TTH sensor can meet this challenge.

The TTH sensor stands apart with:

 Very fast response time, thanks to the MicroPoas¹, unique zirconia miniaturized sensor

 No reference gas requirement : this feature increases reliability and allows easy setup.

 Excellent measurement reproducibility ensuring perfect regulation of your processes.

¹Patented design (University of Grenoble – France)



- Control of combustion and of heat treatment ovens
- For temperatures up to 1050°C continuously, depending on the atmosphere
- No need of any reference gas
- Sensor not sensitive to thermal shocks
- Low space requirement
- Almost maintenance-free
- Extremely high reliability and high performance

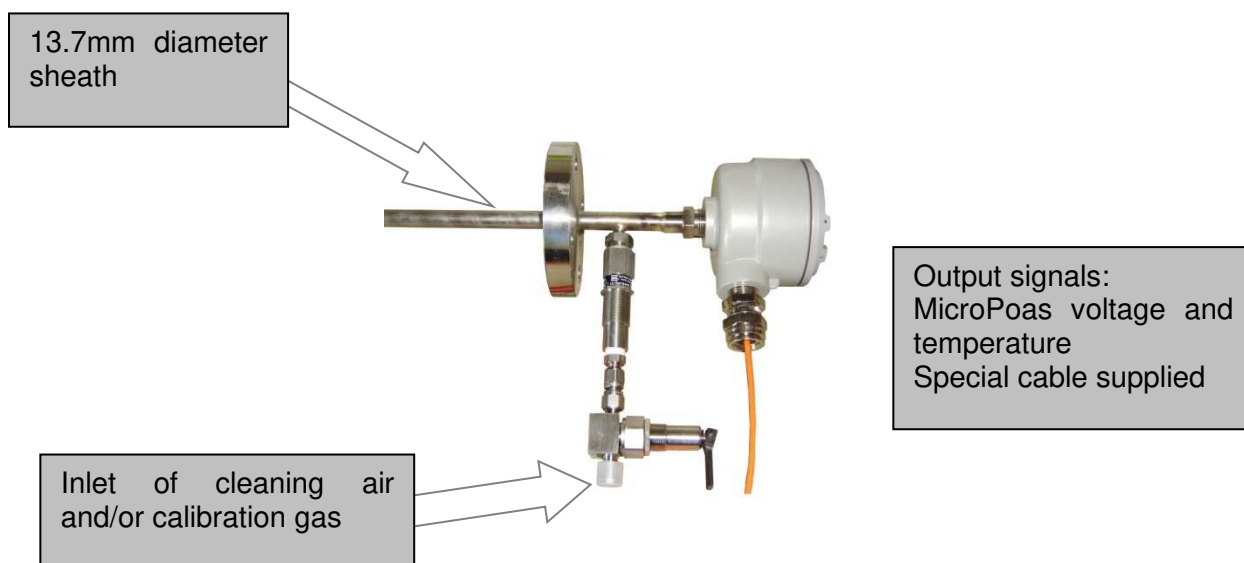
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Main technical specifications

Measurement principle	MicroPoas ¹ Zirconia sensor with built-in metal reference
Maximum temperature of the gases you analyse	1050°C (depending on the versions)
Calibration and maintenance	Calibration on a single point ; without dismantling the sensor
Tubing materials	Inconel or HR160
Mounting	By flange, or sliding connection (optional, contact us)
Dimensions	Diameter: 13.7mm – standard length 700mm, (other lengths available on request)



Applications

Case-hardening

Treatment ovens
(neutral, oxidizing, or reducing atmospheres)

Waste incineration

High temperature combustion

Specifications are subject to change – for improvement purposes –without notice

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