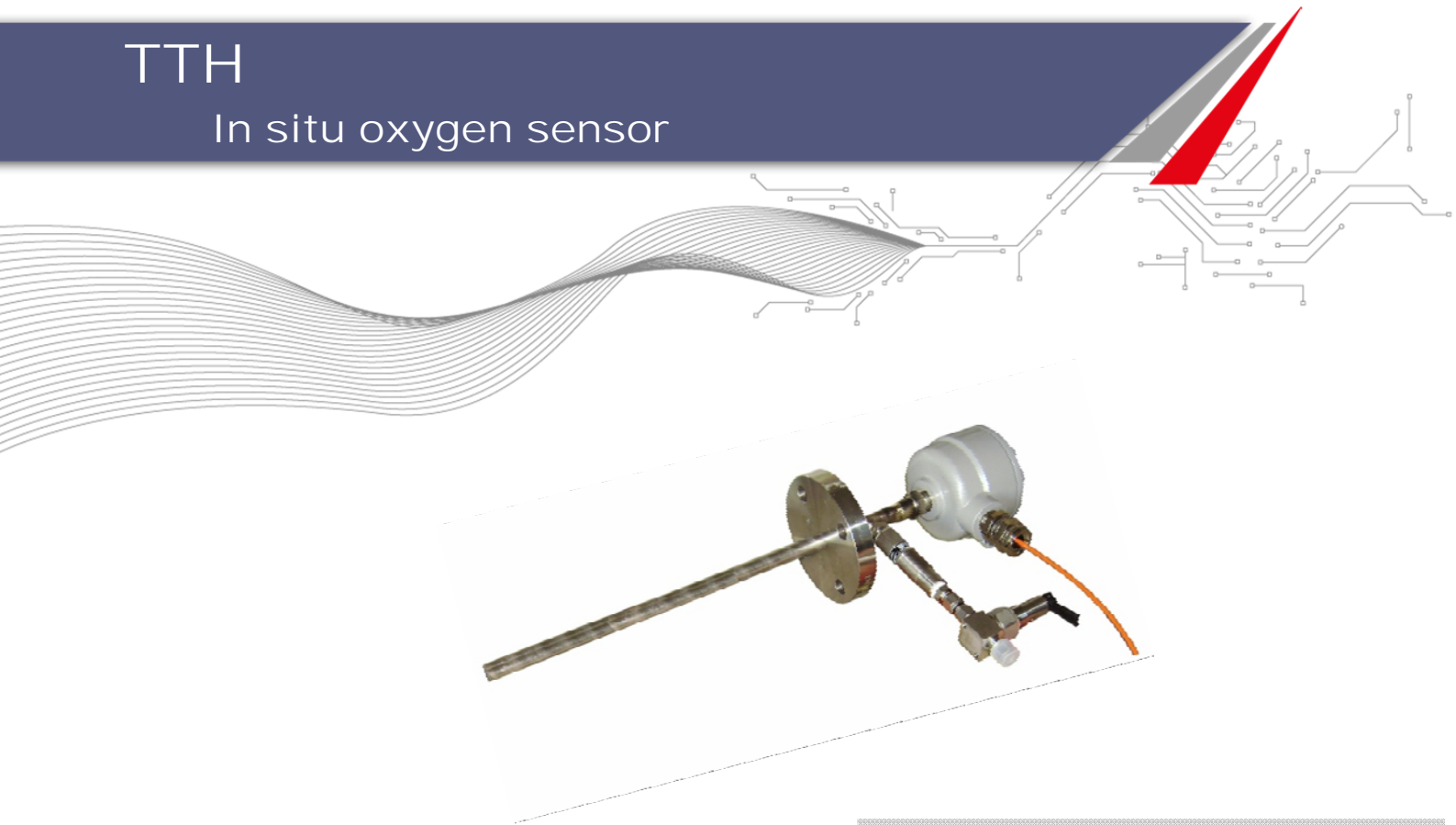



# TTH


## In situ oxygen sensor




Quick and accurate information about the oxygen concentration inside heat treatment atmospheres, and inside combustion atmospheres, are essential. Thanks the MicroPoas<sup>1</sup> (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 MicroPoas<sup>1</sup>, 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.

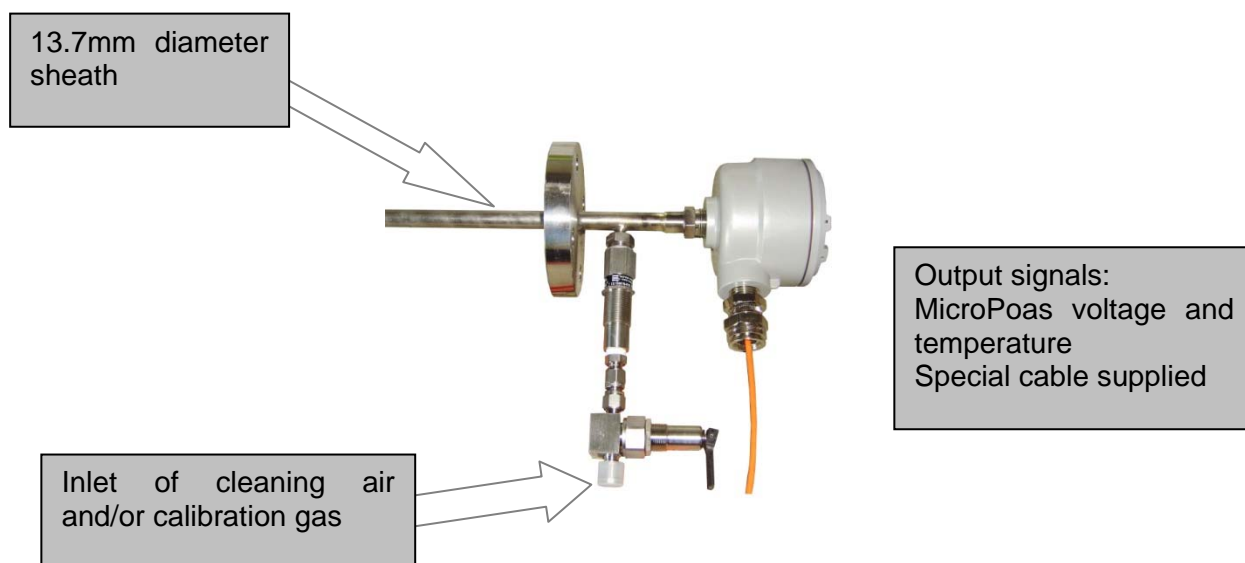
<sup>1</sup>Patented design (University of Grenoble – France)

- 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



# Main technical specifications

|  |   |
|--|---|
| Measurement principle                        | MicroPoas <sup>1</sup><br>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,<br>(other lengths available on request) |



# Applications



Case-hardening



Waste incineration



Treatment ovens  
(neutral, oxidizing, or reducing atmospheres)



High temperature combustion

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

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