

## Extractive oxygen measuring "Hot phase"



- Measurement of oxygen in atmospheres with high risk of explosion with moisture content
- Measurement of moisture in atmospheres with temperatures below 600 ° C and areas with danger of explosion

## Introduction

In potentially explosive processes it is necessary to measure the oxygen content in order to check that in presence of a possible trigger explosions cannot be activated.

Sometimes it is essential to measure the amount of moisture in industrial processes as the ratio between the concentration of oxygen in presence and absence of moisture (after having dried the sample). Analyzers based on zirconium oxide cells are the only ones that can measure the sample as it is. Sometimes the process temperature below 600 ° C (with higher temperatures analyzers as the intrinsically safe mod. Oxys may be used) and its classification with danger of explosion is such that the measure with in-situ heated analyzers cannot be performed. In order to solve these issues Fer Strumenti has developed E705-H analyzer (derived from mod.E705) in tandem with a system of hot sampling, measurement and filtering.

The sample management system is housed in two AISI 304 enclosures, rigidly connected and provided with brackets for mounting vertical. The total size is 770 x 450 x 210 (height x width x depth).

## Technical specifications

E705-H Analyzer: See specific catalog

### Housing A for the pneumatic:

- Heated to 200 ° C with electric heaters and fan
- Holes for two heated lines connecting for sample input and output
- Variable area glass flow-meter for high temperature that can be inspected from the outside
- Sampling pump (5.5 l / min. 200 mbar abs max) with head suitable for high temperature
- Flow regulation system with by-pass pump adjustable from the outside
- Filter (optional) for high temperature

### Housing B for the electrical part:

- Temperature regulator for housing A
- Electrical distribution
- Power supply: 115-230 VAC 750 W

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